Coth Deamen 4/18/96 5N 5-4193

MAY 3 1 1996

In Reply Refer To: MS 5232

Tennessee Gas Pipeline Company Attention: Mr. B. J. Chaney Sugar Mill Point 1115 Regal Row Houma, Louisiana 70360

Gentlemen:

Your letter dated March 12, 1996, requests approval to permanently abandon in place approximately 12,832 feet (2.43 miles) of 6 5/8-inch pipeline designated as Segment No. 5493, and to relinquish in its entirety, Right-of-Way Grant OCS-G 4150 associated therewith. The subject pipeline was used to transport gas from Platform A in Block 58 to a subsea tie-in with a 16-inch pipeline in Block 71, East Cameron Area.

Pursuant to 30 CFR 250.4(b), approval is hereby granted to abandon the above described pipeline, and in accordance with 30 CFR 250.159(c), the requirement that the pipeline be removed is hereby waived. However, in the future, should it be determined that this abandoned pipeline constitutes a hazard to navigation or commercial fishing operations or unduly interferes with the other uses of the Outer Continental Shelf, Tennessee Gas Pipeline Company shall be required to remove it.

Pursuant to 30 CFR 250.150(b), the relinquishment of the right-of-way grant associated with the pipeline that is to be abandoned in place is hereby accepted effective March 15, 1996.

Sincerely,

Orlg. Sgd.) Kent E. Stauffer Donald C. Howard Regional Supervisor Field Operations

WWilliamson:amm:4/9/96:Tennesse.493

B4180 Jus493

Tennessee Gas Pipeline Tenneco Energy Sugar Mill Point 1115 Regal Row Houma, Louisiana 70360 Tel 504 868 6785 Fax 504 868 1423

March 12, 1996



U S. Department of the Interior Minerals Management Service Gulf of Mexico OCS Region 1201 Elmwood Park Boulevard New Orleans, LA 70123-2394 Attention Warren Williamson

Re. Permanent Abandonment and Relinquishment of Pipeline Right of Way, OCS-G 4150, Seg. No 5493, East Cameron Block 58-A Line

Dear Warren:

In accordance with Title 30 CFR Part 250, Subpart J, 250.156 and 250.164, Tennessee Gas Pipeline Company hereby requests approval to permanently abandon and relinquish approximately 2.43 miles of six inch (6") pipeline in the East Cameron Area, Offshore Louisiana

The temporary cessation of the above pipeline was approved on July 8, 1992. Tennessee Gas Pipeline Company hereby requests approval to relinquish the pipeline right of way associated with this abandonment. TGP is requesting this permanent abandonment and relinquishment based on the fact that there is no future use for this pipeline. This line has been abandoned as proposed since August 1992.

If you should require any additional information regarding this matter, please call this office.

Sincerely,

J Chaney, Supervisor Rights

of Way as Agent and Attorney-in-Fact

KJC kjc

cc M Taylor

L Rosales

P Craft

File

P Alexis

Tennessee Gas Pipeline Tenneco Energy Sugar Mill Point 1115 Regal Row Houma, Louisiana 70360 Tel 504 868 6785 Fax 504 868 1423

March 12, 1996



U.S Department of the Interior Minerals Management Service Gulf of Mexico OCS Region 1201 Elmwood Park Boulevard New Orleans, LA 70123-2394 Attention: Warren Williamson

Re: Permanent Abandonment and Relinquishment of Pipeline Right of Way, OCS-G 4150, Seg. No. 5493, East Cameron Block 58-A Line

Dear Warren

In accordance with Title 30 CFR Part 250, Subpart J, 250 156 and 250 164, Tennessee Gas Pipeline Company hereby requests approval to permanently abandon and relinquish approximately 2.43 miles of six inch (6") pipeline in the East Cameron Area, Offshore Louisiana.

The temporary cessation of the above pipeline was approved on July 8, 1992
Tennessee Gas Pipeline Company hereby requests approval to relinquish the pipeline right of way associated with this abandonment. TGP is requesting this permanent abandonment and relinquishment based on the fact that there is no future use for this pipeline This line has been abandoned as proposed since August 1992

If you should require any additional information regarding this matter, please call this office.

Sincerely,

B J. Chaney, Supervisor Rights

of Way as Agent and Attorney-in-Fact

KJC.kic

cc: M Taylor L Rosales

P. Craft File

P Alexis

Mando 7-7-92 JUL 08 1992 In Reply Refer To: MS 5232 Tennessee Gas Pipeline Company Attention: Mr. B. J. Chaney 1115 Regal Row Houma, Louisiana 70360 Gentlemen: Pursuant to the authority granted by 30 CFR 250.150(b), your request dated June 22, 1992, for modification of Right-of-Way OCS-G 4150 to allow for the temporary cessation of operation of pipeline Segment No. 5493 is hereby approved, subject to the following conditions: 1. The annual rental required by 30 CFR 250.159(c)(2) shall continue to be due and payable in December of each calendar year. 2. Tennessee Gas Pipeline Company shall, upon receipt of the necessary documentations which are required by the Federal Energy Regulatory Commission under Tennessee Gas Pipeline Company blanket abandonment authorization, file an application to permanently abandon the subject pipeline and relinquish the right-of-way grant.

Sincerely,

(Orig. Sgd.) A. Donald Giroir

D. J. Bourgeois Regional Supervisor Field Operations

bcc: 1502-01 (P/L OCS-G 4150) w/orig appln. (MS 5232) 1502-01 (P/L OCS-G 4150) w/cy of appln. (MS 5033) MS 5280

MS 5232 Carto

MConner: ds: 7/6/92

\$4100

my 1/10/92

OCS-6-4150

Tennessee Gas Pipeline

A Tenneco Company

Sugar Mill Point 1115 Regal Row Houma, Louisiana 70360 (504) 868-6785

June 22, 1992

JUN 2 3 1992

OCS Region, New Orleans.

Attention: Mike Conner U. S. Department of the Interior Minerals Management Service Gulf of Mexico OCS Region 1201 Elmwood Park Boulevard New Orleans, LA 70123-2394

Re: Temporary abandonment of 6" natural gas pipeline, East Cameron Block 58-A Line, OCS-G 4150

Dear Mike:

In accordance with Title 30 CFR Part 250, Subpart J, 250.156, Tennessee Gas Pipeline Company hereby requests approval to temporarily abandon the above referenced pipeline in the East Cameron Area, Gulf of Mexico, Offshore Louisiana.

This pipeline extends from Unocal's East Cameron Block 58-A Platform to a sub-sea tie-in with TGP's 16" pipeline in Block 71. The procedure which will be used to abandon this line is attached hereto.

Upon receipt of the necessary documentation, i.e. P & A reports, etc., which are required by FERC under TGP's blanket abandonment authorization, TGP will file to permanently abandon the above pipeline.

The line will be purged with sea water to remove any materials which may be harmful to the environment prior to abandonment.

Also, enclosed are three copies of Drawing Nos. TO-F2-507F-4500-1, 1A, 1B and 1B1, which have been red-marked to show the proposed work, along with a letter from Unocal requesting removal of the above facilities.

If you should require any additional information regarding this matter, please call this office.

Sincerely,

B. J. Chaney, Supervisor Rights of Way as Agent and Attorney-in-Fact June 22, 1992 Page Two

BJC/KJC:sml

Enclosures

cc: O. O. Jones

D. Huebner

J. M. Nunnally

C. Whitney

R. Schorre

File

ABANDONMENT PROCEDURE EAST CAMERON 58

- 1. Locate, uncover and close sub-sea Valve No.
 507F-4501 in East Cameron Block 71, open 2" bypass
 valves. X = 1,562,868.78 Y = 248,900.06
- 2. Install 6" Poly pig in pig trap in East Cameron 58A Platform. (Note: This operation is usually handled by a second vessel with a high pressure water pump on board.)
- 3. Launch and run pig with high pressure water.
 (13,100 ft. of 6.625" O. D. x .375 W. T. Pipe =
 18,450 gallons.)
- 4. When pig reaches sub-sea valve assembly, close 2" sub-sea bypass valves.
- 5. Bleed water pressure from line.
- 6. Unbolt flange at sub-sea tie-in station 0+31.8.
- 7. Cold cut 6" pipe at approximate station 0+37 and remove section to surface vessel.
- 8. Install 6" foreman plug in pipeline at abandoned end, previously cut in step 7. Bury end to 3 ft. of cover.
- 9. Install 6" blind flange at station 0+31.8 on flange previously unbolted in step 6. Bury end to 3 ft. of cover.
- 10. At East Cameron 58A platform, cut 6" pipeline sub-sea at base of riser. (water depth 50 ft.)
- 11. Install 6" foreman plug at abandoned end, previously cut in step 10. Bury end to a minimum of 3 ft. of cover.
- 12. Cut section of riser at approximate 0+17 elevation.

Unocal North American Oil & Gas Division Unocal Corporation 1018 Harding Street P.O. Box 51388 Lafayette, Louisiana 70505-1388 Telephone (318) 232-9724



May 27, 1992

Louisiana Region

Tennessee Gas Pipeline Company 1115 Regal Row

Houma, Louisiana 70360

Attention: Mr. O. O. Jones

RE:

6" Pipeline Abandonment Line No. 507F4500 OCS-G 3530 Lease East Cameron Block 58 East Cameron Block 57 Field

Offshore Louisiana

Dear Mr. Jones.

As per our telephone conversation of May 19, 1992, government regulations now require all structures in Unocal's East Cameron Block 58 to be permanently abandoned. As owner, Tennessee Gas Pipeline Company will be required to permanently abandon the referenced pipeline which serviced Unocal's E.C. 58-A Platform.

Salvage operations at the E.C. 58-A Platform are scheduled to commence in August 1992. This will necessitate the referenced pipeline to be abandoned and disconnected from the 58-A Platform by July 31, 1992. If this date is not suitable please contact the undersigned at (318) 266-6602.

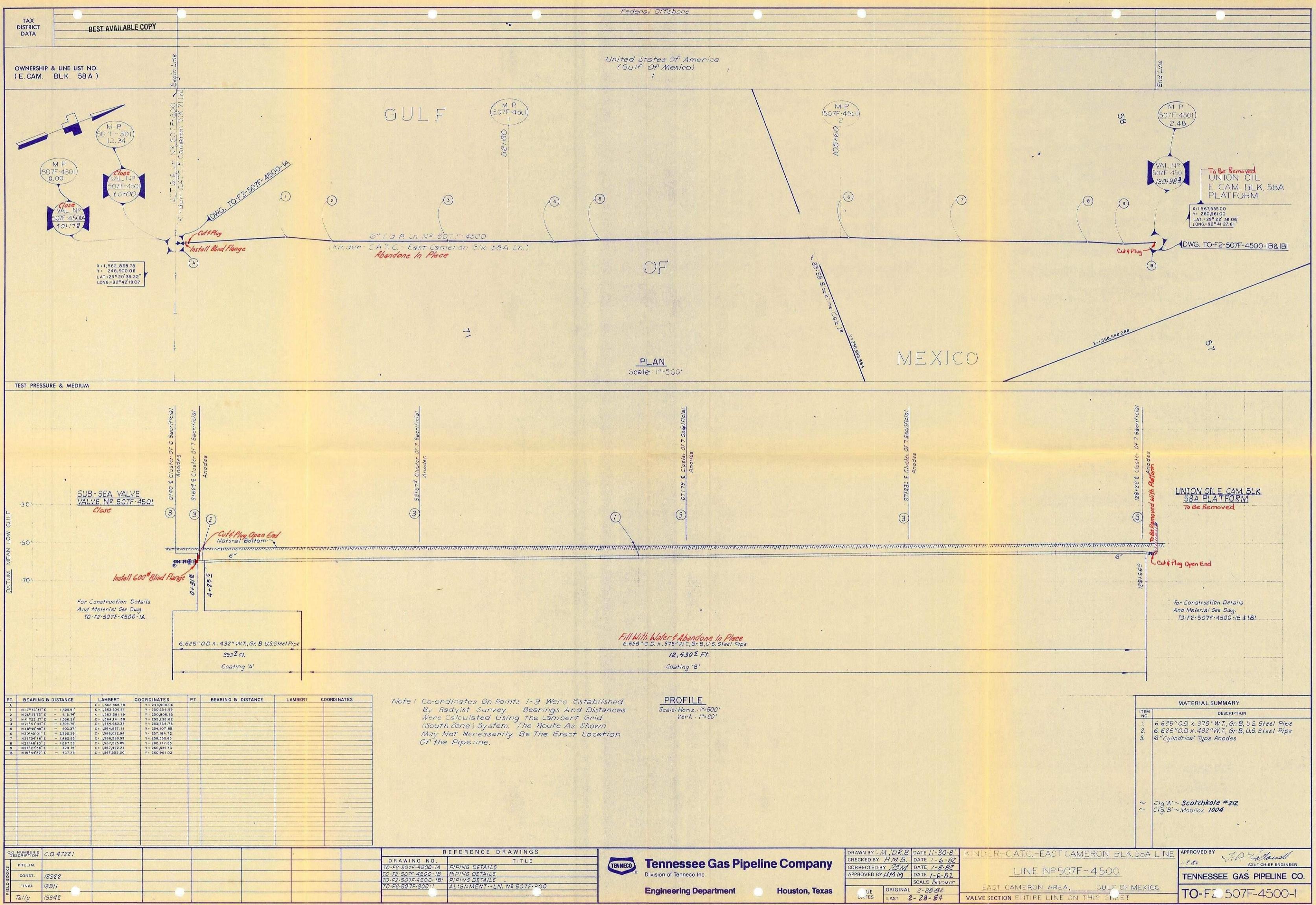
Please contact the field engineer, Jeff Lott at (318) 266-6419 (if unavailable, contact the production foreman, Dale Faulk at (318) 898-4516) prior to mobilizing for this project.

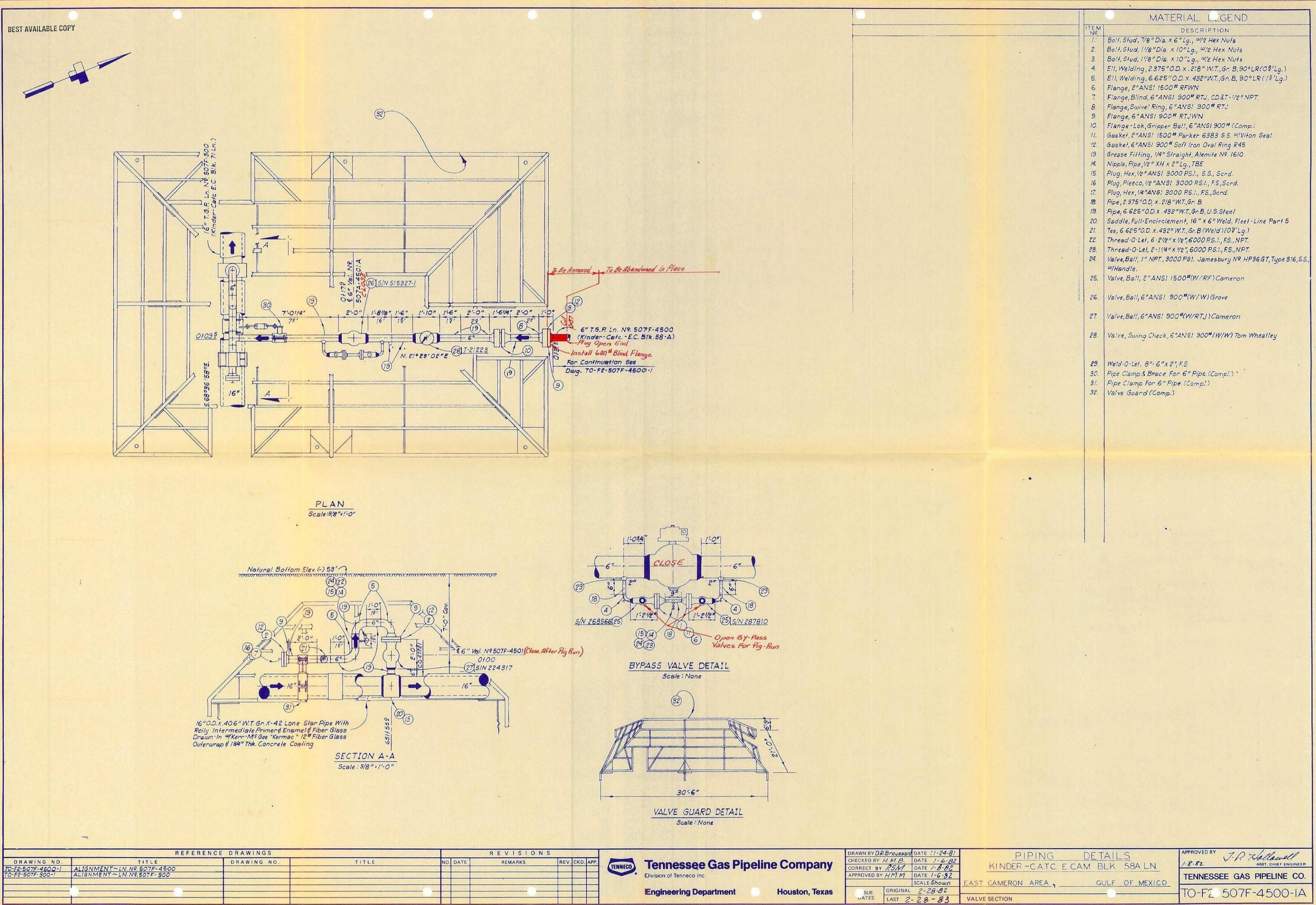
Yours very truly,

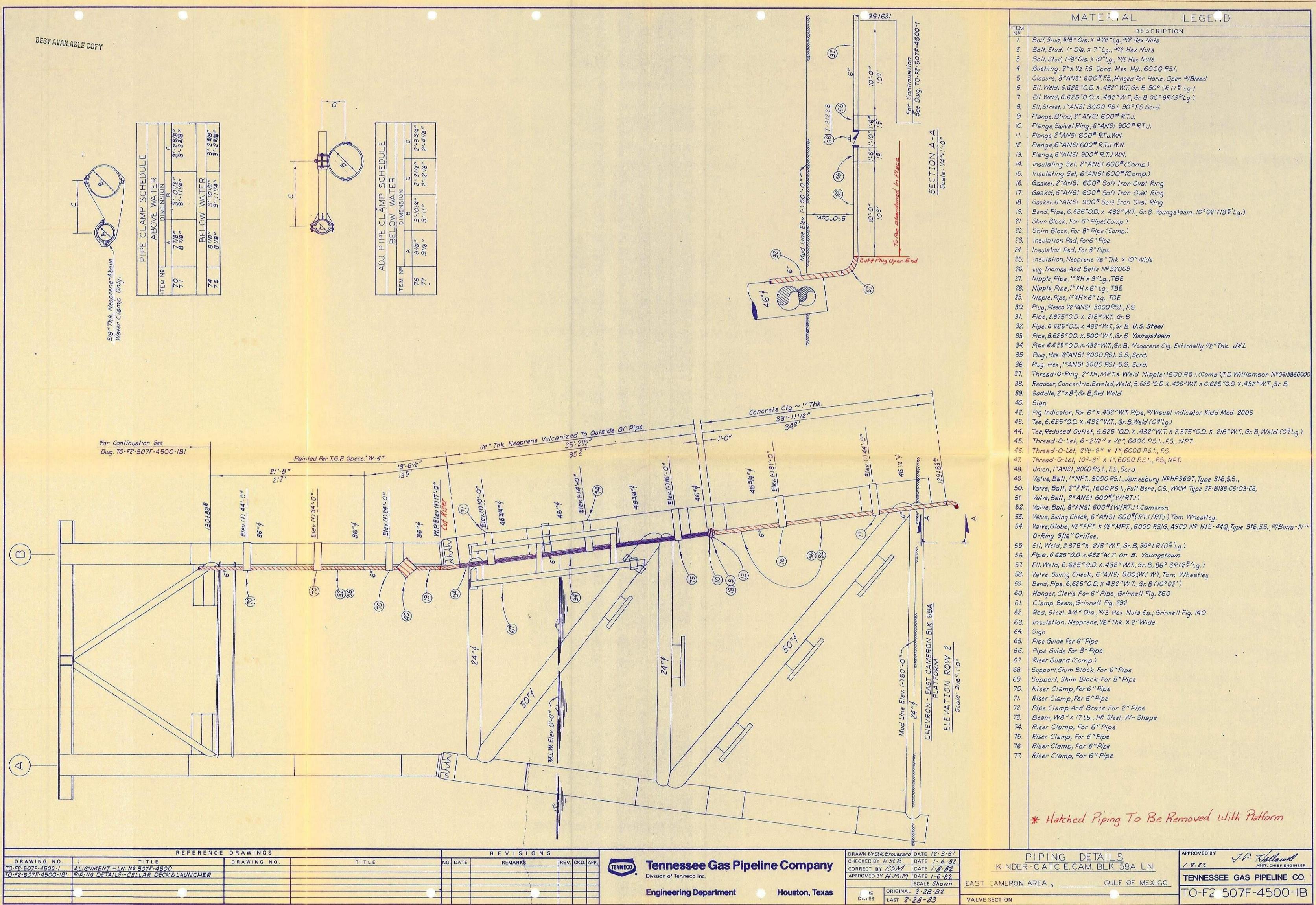
Union Oil Company of California

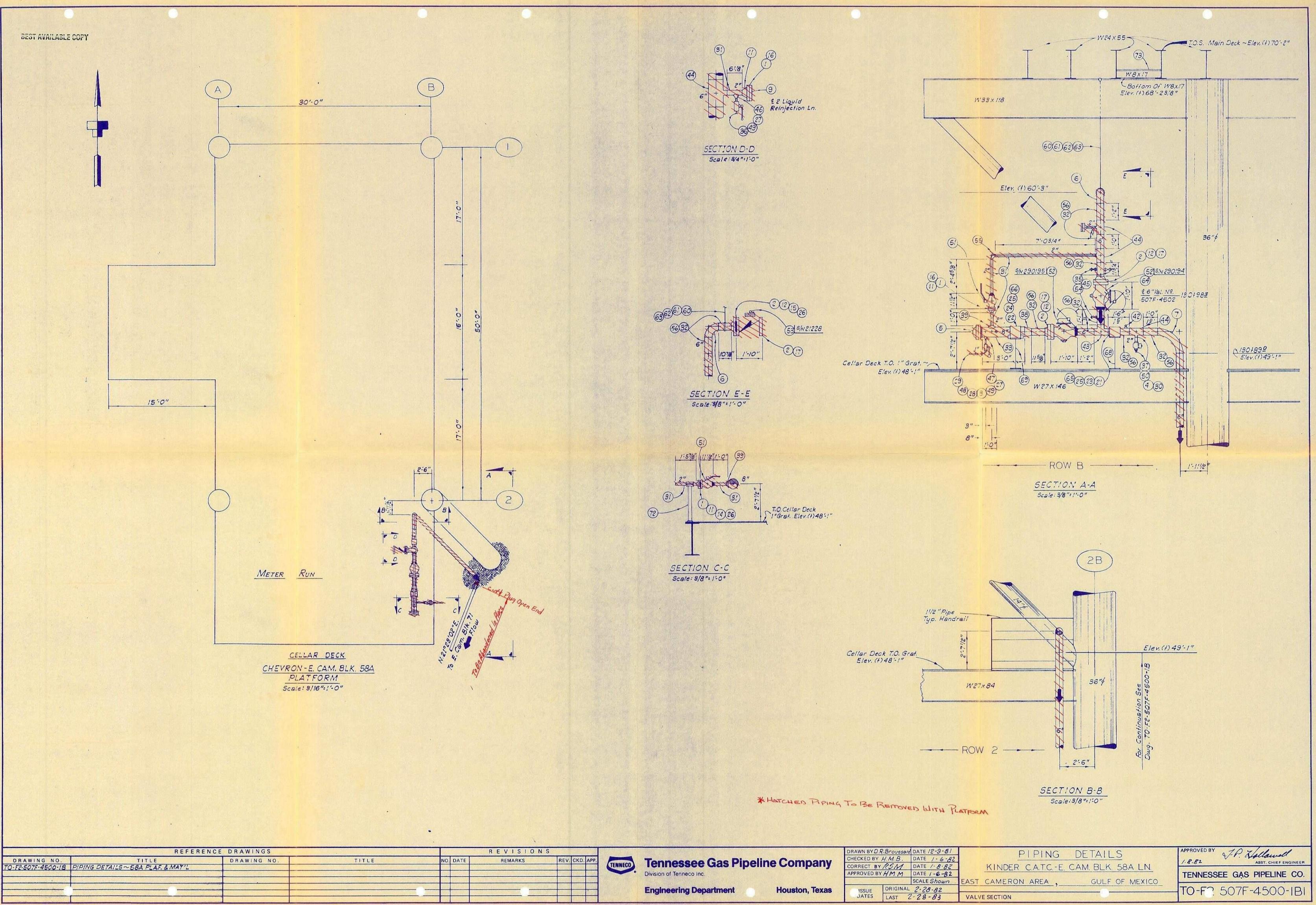
Blake Shivers

Production Engineer, (PED)









PIPELINE INSPECTION CHECK LIST DEST AVAILABLE COFY

Date of Inspection:	Company Contact: Pau
Lessee/Operator:	Contractor:Barge III
MIS Inspector: Williams	Barge or Platform: <u>CC58</u> A
Segment 110.:	
From: EC 58 'A'	To:
PIPELINE CONSTR	UCTION/SPECIFICATIONS .
5/0	•
	Wall Thickness:
Grade:	Anodes:
Seamless:	Type:Weight:
Coating:	No.:Spacing:
Pipeline Crossing & Clearance:	Burial Depth:
Lxisting Pipeline(s) Bouyed:	Valves/Taps Cover:
Length:	
(Medium) Water or Product Duration Time	<u>P DAIA</u>
<u>Pressure (PSI)</u>	
MINIMUM RATING OF VALVES, FLA	NGES, FITTINGS AND PRESSURE DATA
Raling: Avsi 600	Approved MAOP: 1232
Service: Cas	Pipeline Flowing Pressure: 600
Source: <u>Separator</u>	<u>Range</u> <u>Setting</u>
IF Well(s), SIIP:	Iligh Sensor(s): 875 . 966
	Low Sensor(s): <u>540</u> <u>486</u>
	PSV:
Is low sensor installed where it could not	be isolated?
RISER F	PROTECTION
Coating:Bumper Guard:	Splash Guard:

Water Depth:

OPTION SN.	GOM OCS RI	EGION		ı	UNITED STAT MINER GULF PIP	ES DEPARIME ALS MANAGEN OF MEXICO ELIME INSPE	IENT SERV OCS REGI	ICE ON	Of		015	DATE PAGE	PPLF0 03/27
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United States Department of the Interior



MINERALS MANAGEMENT SERVICE GULF OF MEXICO OCS REGION 1201 ELMWOOD PARK BOULEVARD NEW ORLEANS, LOUISIANA 70123-2394

In Reply Refer To: LE-3-1

N. O. Misc. No. 014

November 30, 1989

ACTION

Tennessee Gas Pipeline Company

Right-of-Way

MERGER AND CHANGE OF NAME RECOGNIZED

On October 17, 1989, there was filed in this office for approval evidence of merger of Tenneco Merger Company, an unqualified corporation, with and into Tenneco Inc., a Delaware corporation (N. O. Misc. No. 014), and, as of the date of the merger, Tenneco Inc. changed its name to Tennessee Gas Pipeline Company. The effective date of the merger and simultaneous change of name is December 8, 1987. The name of the surviving corporation is Tennessee Gas Pipeline Company and the qualification number assigned thereto is New Orleans Miscellaneous File Number 014.

In connection with the merger and change of name, the following evidence was received:

- 1. Agreement and Plan of Merger of Tenneco Merger Company with and into Tenneco Inc. under the name of Tennessee Gas Pipeline Company, duly certified by the Secretary of State of the State of Delaware on December 8, 1987, with additional certification by James Gaughan, Assistant Secretary of Tennessee Gas Pipeline Company, on June 7, 1989;
- Certificate reflecting that Tennessee Gas Pipeline Company is duly incorporated under the laws of the State of Delaware and is in good standing, executed by the Secretary of State of the State of Delaware, on November 3, 1988;
- 3. Certificate reflecting that Tennesseee Gas Pipeline Company is incorporated under the laws of the State of Delaware and that it is authorized to hold pipeline rights of way and mineral leases on the Outer Continental Shelf, duly executed by Vincent F. Ewell, Jr., Assistant Secretary of Tennessee Gas Pipeline Company, on June 7, 1989;

- 4. Certificate listing the elected or appointed and now acting officers of Tennessee Gas Pipeline Company, duly executed by James Gaughan, Assistant Secretary of Tennessee Gas Pipeline Company, on June 7, 1989;
- 5. Copy of resolutions adopted at a meeting of the Board of Directors of Tennessee Gas Pipeline Company held on May 9, 1989, duly certified by James Gaughan, Assistant Secretary of Tennessee Gas Pipeline Company, on June 1, 1989;
- 6. Bond Rider to be attached to Outer Continental Shelf Right of Way Bond Number 61 S 33110-15-79 BCA changing the name of the principal to Tennessee Gas Pipeline Company, effective December 8, 1987;
- 7. Listing of the pipeline rights-of-way to be affected by the merger and change of name.

Since the transfer and vesting of property rights in the surviving corporation have been effected by State statutes by operation of law and not by individual conveyances, the merger and change of name are hereby approved insofar as they affect pipeline rights-of-way under 30 CFR 250. The change in ownership as to the pipeline rights-of-way listed below is recognized and the records so noted:

OCS-G NO.	OCS-G NO.	OCS-G NO.	OCS-G NO.	OCS-G NO.
0643	1345	1692	1854	2121-E
0643-A	1376	1702	1854-A	2123
0643-B	1382	1702-B	1854-B	2214
0643-C	1382-A	1702-C	1854-C	2214-A
0643-D	1383	1702-D	1854-E	2975
0649	1434	1702-E	1854-F	2975-A
0875	1434-A	1702-F	1854-G	3221
0877	1434-G	1702-H	1854-H	3221-A
0885	1434-H	1702-I	1854-I	3348
0886	1434-J	1702-K	1907-W	3349
0887	1434-K	1702-L	1950-J	3350
0887-A	1461	1702-M	1950-L	3355
0889	1464	1702-0	1992	3357
0891	1464-A	1702-P	2121	3358
0891-A	1683	1702-Q	2121-A	3360
0892	1684	1702-R	2121-B	3437
0895	1687 - S	1702-S	2121-C	3449
1320	1687-T	1702-T	2121-D	3451

| OCS-G NO. |
|-----------|-----------|-----------|-----------|-----------|
| 3455 | 4028 | 4290 | 4855 | 7109 |
| 3613 | 4030 | 4291 | 4977 | 7535 |
| 3614 | 4040 | 4306 | 5135 | 7536 |
| 3626 | 4043 | 4308 | 5136 | 7552 |
| 3633 | 4061 | 4309 | 5137 | 7554 |
| 3638 | 4150 | 4340 | 5141 | 7575 |
| 3644 | 4154 | 4341 | 5152 | 7576 |
| 3648 | 4158 | 4373 | 5157 | 7587 |
| 3652 | 4160 | 4374 | 5232 | 8046 |
| 3828 | 4161 | 4526 | 5253 | 8047 |
| 3837 | 4169 | 4603 | 5259 | 8050 |
| 3845 | 4171 | 4605 | 5933 | 8056 |
| 3848 | 4173 | 4608 | 5937 | 8057 |
| 3851 | 4276 | 4609 | 6381 | 8527 |
| 3852 | 4282 | 4613 | 6546 | 8617 |
| 3855 | 4283 | 4641 | 7096 | 10396 |
| 3861 | 4284 | 4644 | 7104 | 11165 |
| 3862 | 4287 | 4686 | 7107 | 11174 |
| | | | | |

J. Rogers Pearch Regional Director

cc: Associates Case Files

Qualification File (N. O. Misc. No. 014)



United States Department of the Interior

OCS-G 4150

5N 5493

BUREAU OF LAND MANAGEMENT

NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE

HALE BOGGS FEDERAL BUILDING 500 CAMP STREET-SUITE 841 NEW ORLEANS, LA 70130 East Cameron Area

August 7, 1981

ACTION

Tenneco Inc.

Right of Way for Pipe Line

Date of Permit: 10/9/79

: Decision Requesting Proof of

Construction Dated:

Proof of Construction

Received: 5/28/81

Proof of Construction Accepted

The above-captioned grantee has submitted the evidence required by the law and regulations 43 CFR 3340.3(a). The proof of construction is hereby accepted and approved with minor deviations.

John L. Rankin

Manager

cc: W. S. Geological Survey (w/dwg. and reports)

OKON PWQ 4.A.

Tennessee Gas Pipeline

P.O. Drawer 53388 Division of Tenneco Inc. Lafavette, Louisiana 70505 (318) 233-7802



May 27, 1981

Mr. John L. Ranking, Manager United States Department of The Interior Bureau of Land Management Hale Boggs Federal Bldg. 500 Camp Street, Suite 841 New Orleans, LA 70130

> Re: Proof of Construction Pipeline Right of Way OCS-G 4150 East Cameron Area East Cameron Blk. 58A Line

Dear Mr. Rankin:

On September 28, 1979, application for pipeline right of way was approved and permit issued for the construction of a six (6") inch natural gas pipeline in East Cameron Area, Gulf of Mexico, Louisiana.

In accordance with regulations 43 CFR 3340.3, we attach in triplicate, the As-Constructed Drawing TO-F507F-4500-1, showing the deviation from the right of way as originally planned and submitted, along with duplicate copies of the hydrostatic test data.

If there is any additional information needed pertaining to this matter, please advise.

Yours very truly,

R. S. Perot

Assistant Division

Right of Way Supervisor

keo

c R. L. Sanderson

L. J. Broussard

J. B. Inglis

H. E. Fisher

R. G. Robertson

George Benoit

F. J. Millette, Jr.

ROW File

NEW ORLEA	ANS OCS
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MGR. ASST. MGI	R
P. LEGAL	1981
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STUDIES MGMT. SED	7

NOTE SEE PROCEDURE	S TGT 6-129	FOR INSTR	UCTIONS		·				_	
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NOTE SEE ABOVE FAILURE	<u>.</u>	JECTED			SIGNATUR	brad S. C.	Staccepted Starios	DATE - 7/75/5	5P.	
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COMMENTS

PEADWEIGHT TESTER CHANDLER

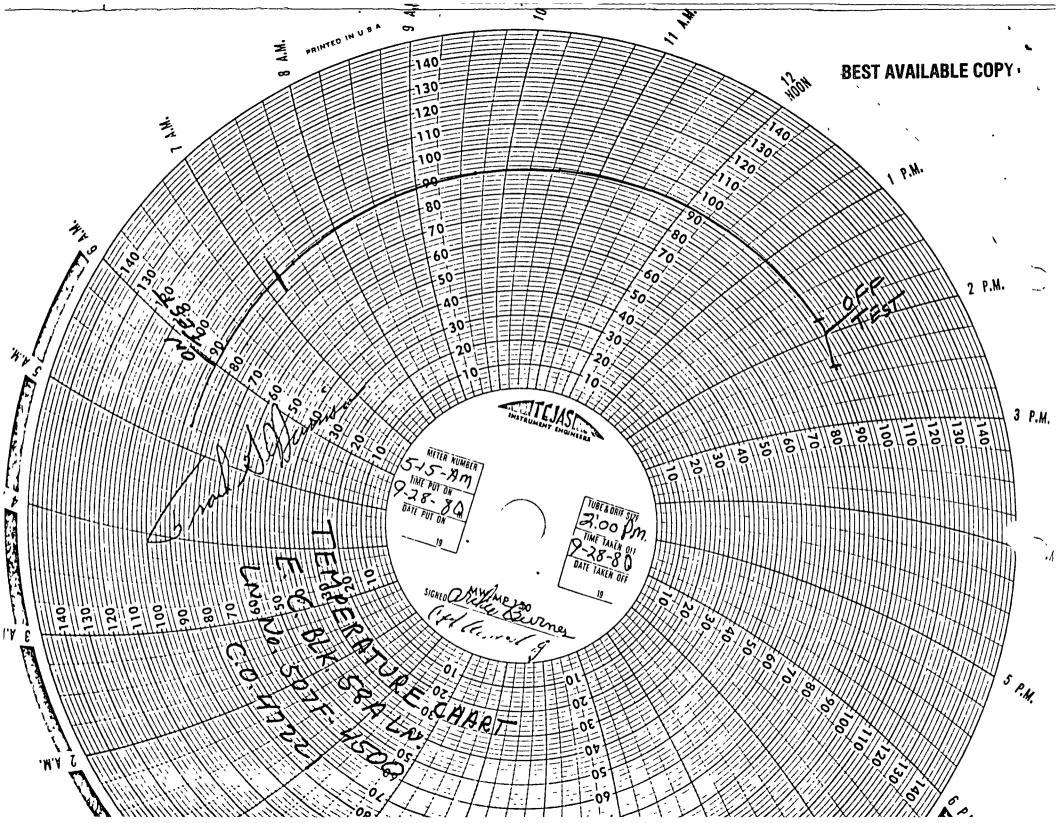
TEMPERATURE REICRDER

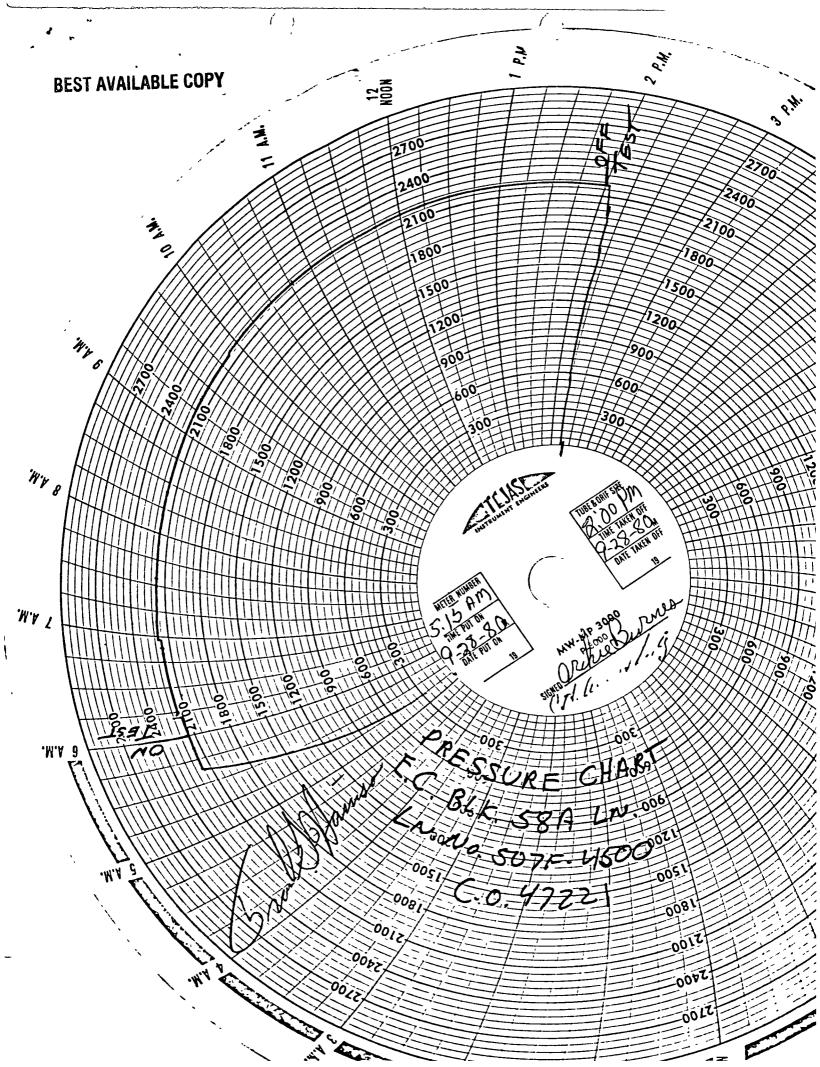
BARTON PRESSURE RECORDER

BARTON

242A-12376

265 - 9517





PIPE LINE TEST

NOTE SEE PROCEDURI	ES TGT 6-129 FOR	RINSTRUCT	TIONS			
C.O. NO.	1 1	LINE NO		SPREAD	SECTION	DATE
47221			-4500			3/9/80
DRAWING NO.	LOCATION			SECTION TESTED		FOOTAGE
TE-F2-507-45		v / т.	TO MLV	FROM STA.	TO STA	161'
NOMINAL PIPE			,		TFFI	
100% S M Y.S. PRESSURE	6.625 IN.	9 1 <u>5 2</u> P.	'''.	U.S. ST		
4564 HYDROSTATIC TEST CONTRA	PSIG		PSIG	INGRAM	MARINE CON.	STRUCTURS, INC.
				PROJECT MANAGER		
COMPANY PERSONNEL INVOL	5.5.T			JAMES L	DUNN	STRUCTURS, INC.
COMPANY PERSONNEL INVOL	VED					
TEST MEDIUM (WATER, GAS,	HARD GA	OVE				
1						
	JATER			1		540.05
	END OF	1	PRESSURE POINT	HIGH ELEVATION	LOW	END OF TEST SECTION
MAP PLUS			LARD	TEST OF F	ABRICATION	
ELEVATION (FEET)				<u> </u>		
TEST PRESSURE (PSI)	3110		3110	2160	3460	7//0
TEST PRESSORE (73)	2160		2160	2.100	2160	2160
% s m y s	47.	۶	47.3	47.3	47.3	47,3
TEST SKETCH (ATTACH)				FLOW		SECTION NO I
					li-d-	H.w 21
YARD TEST	3					6. Hy 95 6
d	7			BEST AVAII	LABLE COPY	
USEFUL CONVERSION .	1 FOOT OF WATER	= .433 PSI	WATER SOURCE	MILE POST	,	WATER SOURCE TEMPERATURE
FACTORS •	1 PSI = 2.31 FEET	OF WATER	PRESSURE	EVILLE)		40°
DEVIATION			FRESSORE	PSIG	% s м ч s	
DATA (OBSERVED AT PRESSURE PT)	INITIAL DEVIA	TION	PRESSURE	P316	/ S M T S	DEVIATION
, tobbented HTT Nebbone Th	FINAL DEVIAT	ION		PSIG	% S M.Y.S.	PSI
	DATE	TIME	A M MAP STATION	ELEVATION	FAILURE PRE	
FAILURE			РМ		PS	IG % S M Y.S.
DATA (OBSERVED AT FAILURE PT)	DESCRIPTION (ATT	ACH SKETCH (DR РНОТО)	REPAIRS MADE (USE BACI	K IF NEEDED)	
	<u> </u>		•	<u> </u>		· • · · · · · · · · · · · · · · · · · ·
ALL TIE-IN WELDS WERE		TESTED				Description of
METHOD X-RAY		TE-			OR U S G S QUAD SHEET	ASSOCIATED
ELEVATION DATA DERIVED P	NOM PROFILE SHEET	16-		1	OR D 3 G 3 GUAD SALET	
	TEST REJEC	TED			TEST ACCEPTED	DATE
				TEST INSPECTOR	011.1	· slala
NOTE SEE ABOVE FAILURE	DATA			DISTRICT	e sa from	1-6 0,9,80
				SI GNATURE DIVISION	V. Clilley	10/15/80
SIGNATURE				SIGNATURE KEINO	H Lifetin	10-21-80
DATE				AGENCY		
DATE				SIGNATURE		j

		TA	BLE OF TEST PRI		
DATE	· TIME	DEAD	TEMPER	ATURE (")	REMARKS (ON TEST, WEATHER, BLEED OFF, OFF TEST, NO OF STROKES FOR REPRESSURE, ETC
		WEIGHT	TEST WATER	AMBIENT	NO OF STROKES FOR REPRESSURE, ETC
8/9/20	1207	0			PRESSURE UP
	1212	2166			
	1219	2172			BLOW DOWN- STEM LEAKING
	1231	90			PRESSURE UP
	1235	2168			
	1238	2174			STEM FLANGE BACK Flo LEAKING
	0109	0		_	PRESSURE UP
	1:12	2154			CHECK LEAKS
	125				11 11
	130	2163	86°	970	ON TEST
	1.35	2175-2160			BLEED OFF
	1:38	2175-2162			11 "1
	1'41	7/73-2/62			// //
· · · · · · · · · · · · · · · · · · ·	1:45	2162	<u> </u>		CLOUDY
	1:50	2175-2165		·	BLFFD OFF
	1.55	2160-2172			PRESSURE UP - HARD RAIN
	1:58	2/60-2175			11 "
	1:59	21602-2175	· · ·		11 11
	7:00	2/62-2/75	93°	82°	1' 11
	2:01	2160-2175			11 11
	2:02	11			11 11
	2:03	1/			11 1/
	7:05	2162-2173			11 (1
	7:06	2160-2175			RIFED OFF
	2,15	2160-2175			
	7:16	11			PRESSURE UP
	7:19	2175-2165			BLEED OFF
	2:22		-		
		2160-2175	90'	8/6	PRESSURE UP
	7:37	2170	88.	895	<u>, </u>
	2.'45		85°	0/	SUNNY
	2:52	2175-2168			BLEFD OFF
· · ·	3:00	7175-2166	93°	880	11 11
		2175-2160	7.0	<i>J</i> 6	11 11
	3'01	2175-2160			
	3:08				., .,
	3:12	2175-2166			11 11
	3.16.	2175-2170			
	3:19	2175-2165	0/0	900	
	3:25	2175-2166	76°	70	
	3'37	2175-7160	900	930	
-	3'55	7/75- 2/66	95"	93°	1 1 /1
	4.01	7175-2166			- 1 11
	4:07	7/75-2162			<u>' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' </u>
	4.14	2175-2162			1, 11

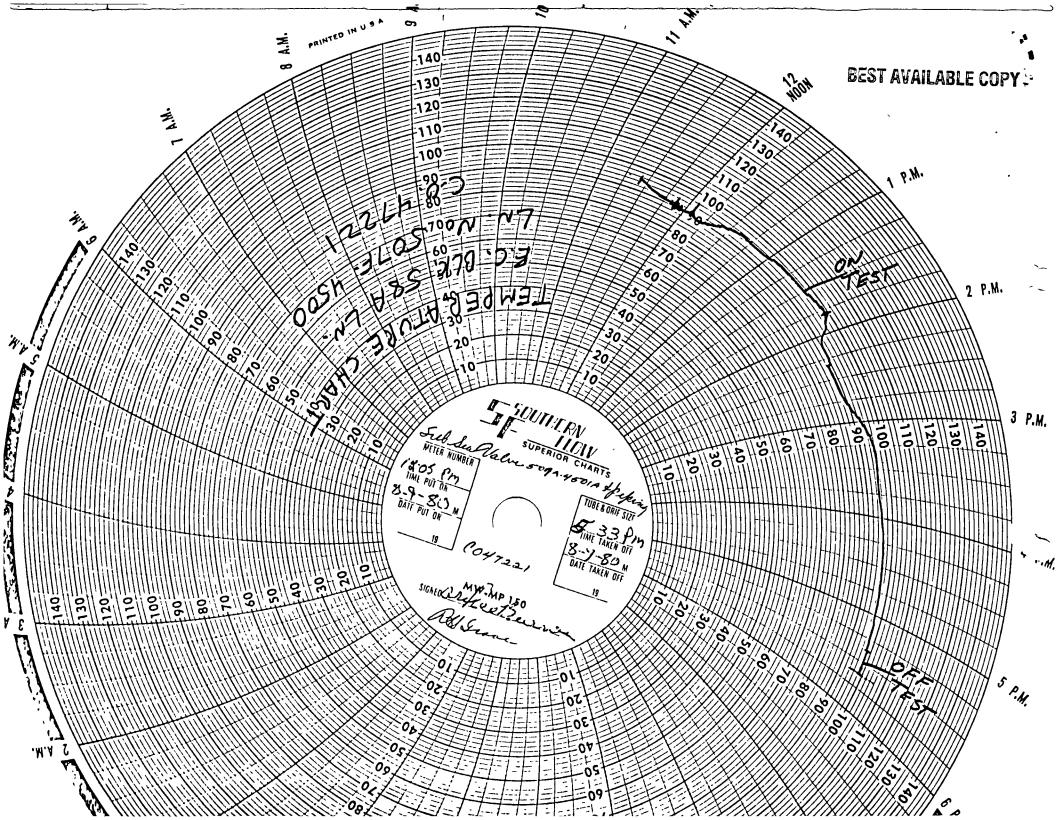
COMMENTS

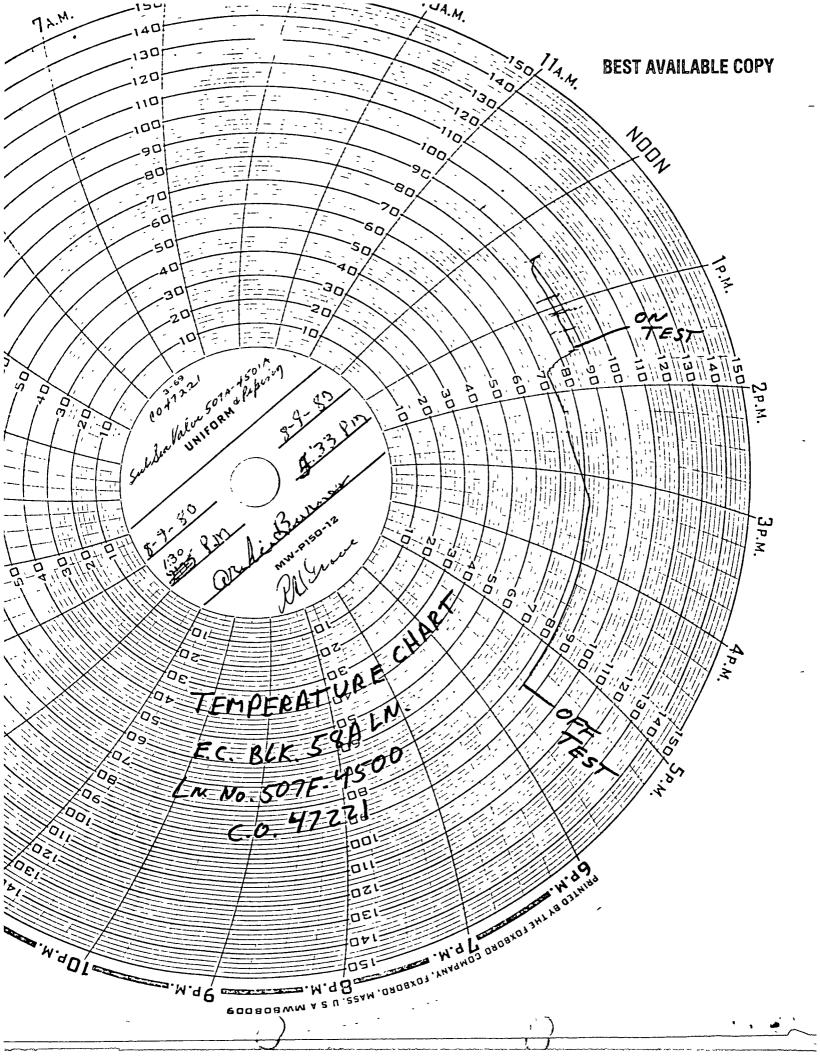
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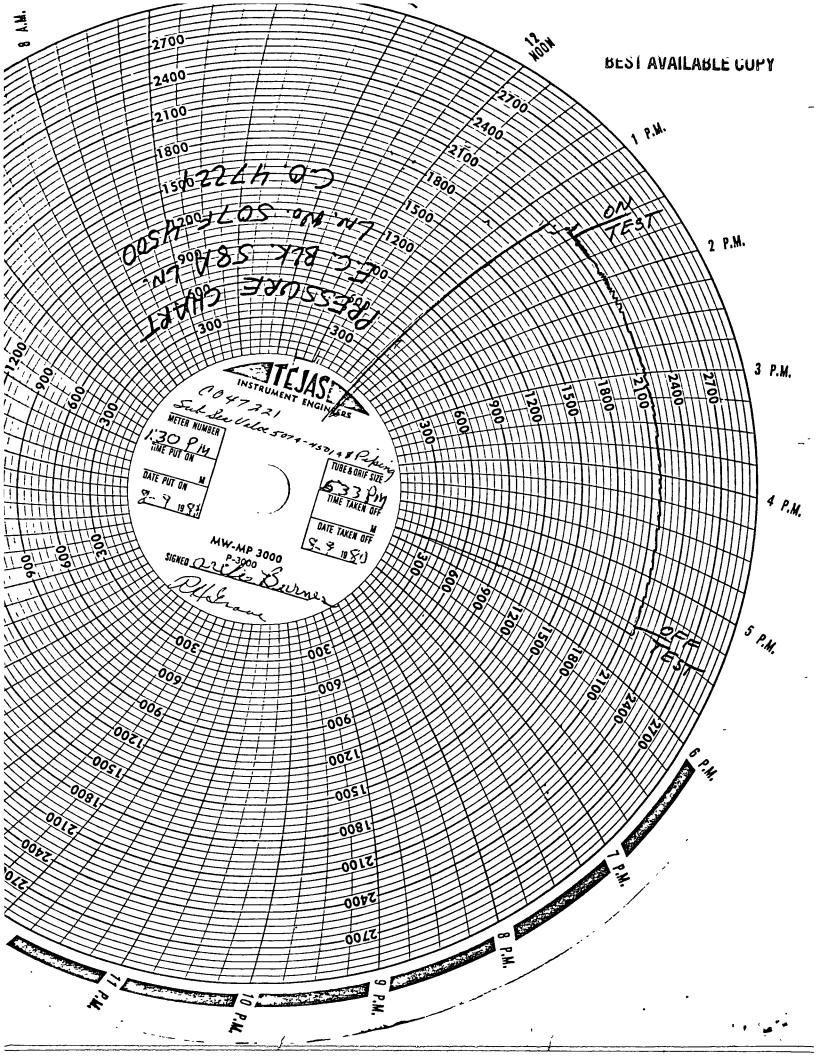
TABLE OF TEST PRESSURES ON TEST, WEATHER, BLEED OFF, OFF TEST, TEMPERATURE() DEAD WEIGHT REMARKS (DATE . TIME NO OF STROKES FOR REPRESSURE, ETC TEST WATER AMBIENT 8/9/80 4:22 CFF 7175-2165 96 ° 940 2175-7161 4:44 2175-2160 4:54 5:00 " 2175-2163 940 2172 970 " " 5:01 2175-2163 " 2175-2/63 5.10 2175-2160 5:15 " 2175-2/66 ., 5:24 45° 948 2171 OFF TEST 5:33

COMMENTS

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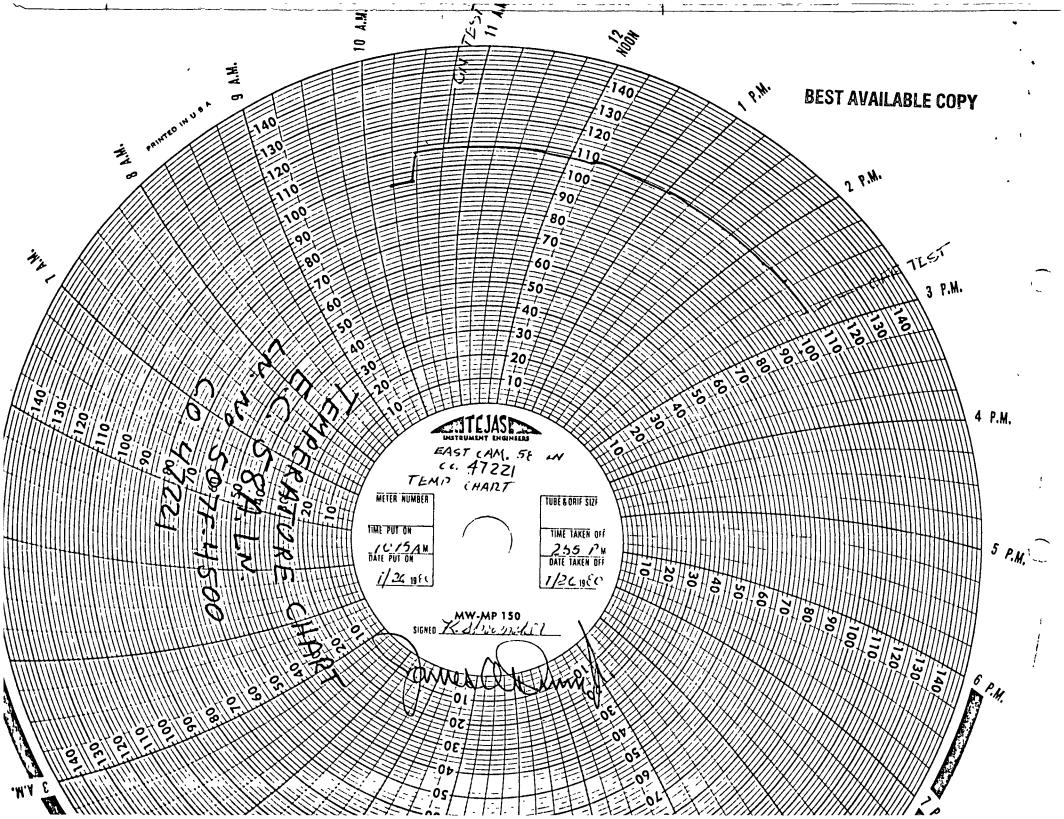
TGT 4207 3/71	((_	TENNESSEE	GASTIPE	LINE' () 63 SHE	ETOF
HOTE SEE PROCEDURE FOR INSTRUCTION	TGT 6-129	PIPE TEST		g p	507F-4500
C.O. ND. 47221	10-0	-4500	FAB YARD	SECTION	JULY 26, 1980
DRAWING NO TE-F2-507F-4500	CCATION 7-IB FROM MLV SIZE O.D. W.T.	TO MLV	FROM STA.	+00 to STA. 01	39 FOOTAGE 9
NOMINAL PIPE 6 100% 5 M Y.S. PRESSURE 4564	6.625 IN. .432 M.A.O.P. PSIG		PIPELINE CONTRAC TNGRAN	TOR 1 MARINE	
LIVGRAM M	AR INE		PROJECT MANAGER	s Dunn	
TEST MEDIUM (WATER, GAS, WATER	SHOEMAKE)	R			
	END OF TEST SECTION	PRESSURE POINT	HIGH ELEVATION	LOW ON ELEVATION	END OF TEST SECTION
MAP PLUS	0+00	0+39	0+3	9 0+32	0 +3 2
ELEVATION (FEET)	< YARD	TEST.	ED -		
TEST PRESSURE (PSI)	2160	2160	216		2/60
% s m y s	47%	47%	47%		47 % section no
+	blind Cameron flange, Boll Valve, 1'-10/2 6.65" O.D. 432" W.T. GR	र्री			G S AH 81
			BEST AVAILA		
	1 FOOT OF WATER = .433 PSI 1 PSI = 2,31 FEET OF WATER	1 -/-		B YARD	WATER SOURCE TEMPERATURE
DE VIATION DATA (OBSERVED AT PRESSURE PT)	INITIAL DEVIATION	PRESSURE	PSIG	% s.m.y.s.	DEVIATION
5411185	DATE TIME	A.M. MAP STATION	PSIG	FAILURE PRI	ESSURE
FAILURE DATA (OBSERVED AT FAILURE PT)	DESCRIPTION (ATTACH SKETC		REPAIRS MADE (USE		516 % S.M.Y.S.
METHOD GAMMA	<u> </u>	-			ASSOCIATED X-RAI
ELEVATION DATA DERIVED FR	TEST REJECTED			TEST ACCEPTED	DATE
NOTE SEE ABOVE FAILURE	DATA		TEST INSPECTOR SIGNATURE DISTRICT SIGNATURE DIVISION	1 Leiting	10/15-180
SIGNATURE			SIGNATURE /	u H. Liter	> 10-21-80

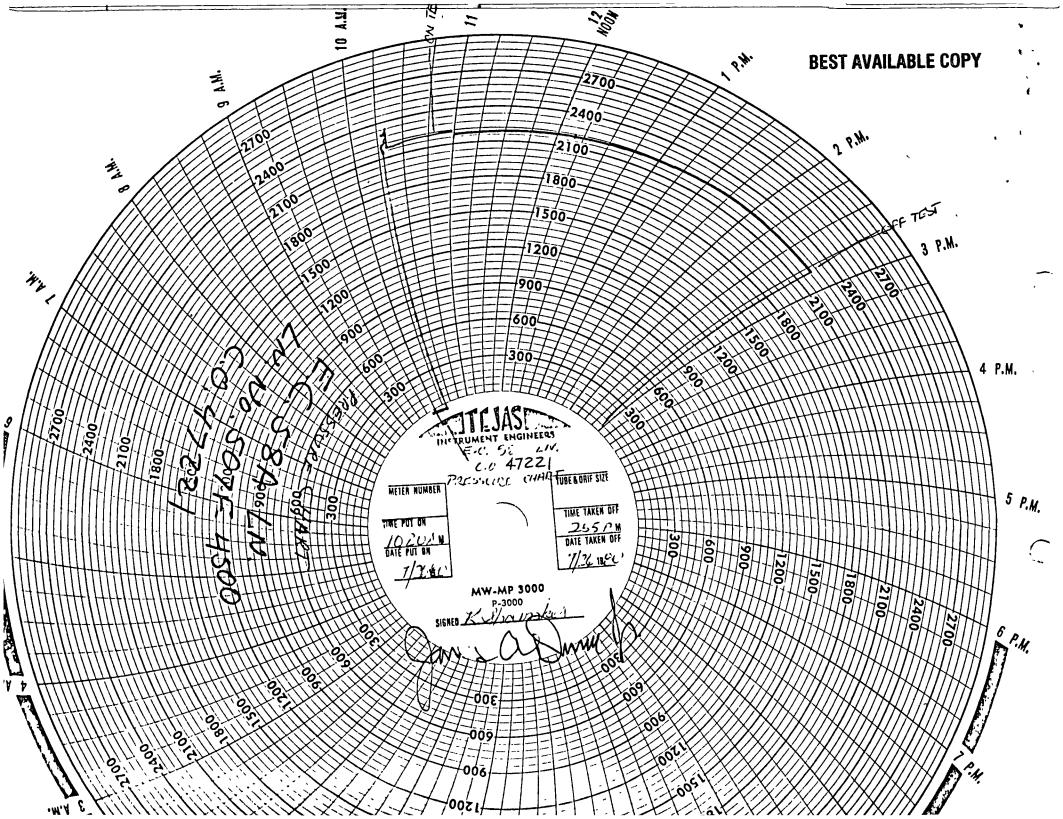
AGENCY SIGNATURE

DATE

		TA	BLE OF TEST PE	DECCLIDEC	
		DEAD WEIGHT			DEMA DE ON TEST WEATHER BLEED OFF, OFF TEST,
DATE	DATE TIME		TEMPERATURE AMBIENT		REMARKS (NO OF STROKES FOR REPRESSURE, ETC.)
	 		TEST WATER	AMBIENT	<u>'</u>
7/26/80	1051	2/60	96 96	85	ON TEST
	1059	2164		87	, ,
	1105	2166	104	89	<i>i.</i> ··
	1106	2/68	104	89	
	1107	2169	104	89	1. "
	11110	2175-214	104	90	BLEFD OFF.
	1118	2/73	104	90	ON TEST
	1119	2/75-2/60	105	90	BLEFO OFF
	1130	2/70	104		ON TEST
	1110	2/7/	10.5	9/	11 11
	1140	2175-716	0105	9/	BLFFD OFF
	1200	7/10-7/14	108	9/	
	1200	2169			ON TEST
	1/2/5	2165	107	9/ -	
	1230	214	106	89	11 11
	1240	2/75-60		92	BIFFD OFF
	1252	2175-2160	108	93	BLEED OFF
	1300	2175-2160	108	94	11 1/
	/3/5	2/70	107	92	// //
	1330	2/75-2/65	10B	93	",
· · · · · · · · · · · · · · · · · · ·	1350	2175-2165	107	1 00	1
·······	1413	2/65	106	00	ON TEST
	14.35	2160	106	90	/
. ,	1500	2160	108	89	OFF TEST-BLEED DOWN
	1500	100	700	07	0/7 /25/ 5220 00/10/4
	<u> </u>			· · · · · ·	
					
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· · · · · · · · · · · · · · · · · · ·	1				
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COMMENTS DEAD WT. APPARATUS - CHANOLER - SIN 8911)
PRESSURE RECORDER - BARTON - SIN 242A-698.73
TEMPERATURE RECORDER - BARTON - SIN 265 A-23869





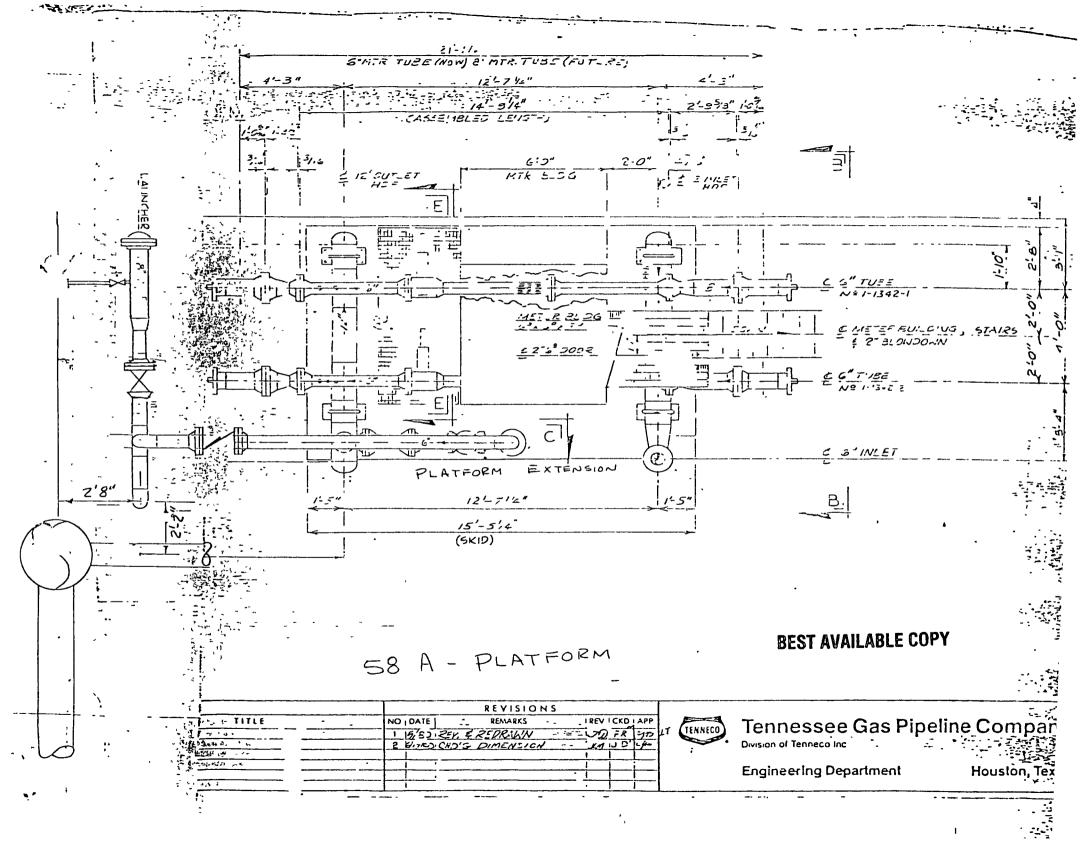
, , , , , , , , , , , , , , , , , , ,		~ ~,			~ ~		40B
TENNECO IEN'N'ES	SEE GAS PIPE	<u>u. Co</u>			()	NOV 1 0 1000	DIDE LINE TECT
	 					NOV 1 .3 1980	PIPE LINE TEST
NOTE SEE PROCEDURE		INSTRUCTIONS	<u> </u>	SPREAD	SECTION		DATE
	823		1500		7	_	_
DRAWING NO	LOCATION	30 // /		SECTION TESTER			OCTOBER (, 1980) FOOTAGE
TE-FZ-507F-450U-	FROM MLV	507F-450ZT	O MLV	FROM STA FA	B YARD	TO STA.	
	SIZE O D. W	т (GRADE	MFR.			
NOMINAL PIPE	12 IN MA.O.P.	.687 IN.	<i>B</i>	U.5	STEE!		
100% S M Y S PRESSURE		•					
3774 HYDROSTATIC TEST CONTRAC	PSIG		PSIG	PROJECT MANAGE	4 WELDI	ERS	
^	_	- a	_	1750	H WELDE ER L CARTE		
COMPANY PERSONNEL INVOLV	DP TESTI	VC3 KEN	TALS	VIER	- CARTE	R	
En P	PEEL						
TEST MEDIUM (WATER, GAS,	AIR, OTHER)						
H نسا	TER						
· · · · · · · · · · · · · · · · · · ·	END OF	PF	RESSURE	нібн	i	LOW	END OF
	TEST SECTIO	N	POINT	ELEVA	TION	ELEVATION	TEST SECTION
						-	
MAP PLUS							
ELEVATION (FEET)			YARD	726-			1
			IFND	TEST	<i>E-D</i>		
TEST PRESSURE (PSI)	7160	7	160	2160		2160	2160
		1				-,,,,	
% s m y s	57.2	5	7.2	57	2 .	57,2	57.2
TEST SKETCH (ATTACHA	DDITIONAL SKETCH S	HEET IF NECESSA	RY)		Y	TEST SE	ECTION NO Z
			RF	ST AVAILAI	BLE COPY	TES STATE THE	18 12 B 18 18 18 18 18 18 18 18 18 18 18 18 18
			0.				
 	· · · · · · · · · · · · · · · · · · ·		ATER SOURCE		W. F. DOC. #		WATER SOURCE TEMPERATURE
USEFUL CONVERSION • FACTORS •	1 FOOT OF WATER = 1 PSI = 2.31 FEET	.433 F31	CITY W.		ILE POST		68°
			SSURE	47 E K'	T		00
DEVIATION DATA	INITIAL DEVIAT	ION		PSIG		% s m y.s	
(OBSERVED AT PRESSURE PT)		PRE:	SSURE				DEVIATION
	FINAL DEVIATION	ОИ	-	PSIG	<u></u>	% 5 м.ү.5.	PSI
	DATE	TIME A.M	MAP STATION	ELEVAT	ION	FAILURE PRES	· · · · · · · · · · · · · · · · · · ·
FAILURE DATA	BEAGRICATION (1)	Р.М	<u> </u>	T ====		PSI	G % S M Y.S.
(OBSERVED AT FAILURE PT)	DESCRIPTION (ATTA	CH SKETCH DR PH	10101	REPAIRS MADE (USE BACK IF NEEDE	(0.	
173				<u> </u>			Γ
METHOD CANON	P-RAY	IESIED					ASSOCIATED
ELEVATION DATA DERIVED F		TE-			OR U S G	S QUAD SHEET	11000011111111
	TEST REJECT	ED			TECT	ACCEPTED	DATE
						ACCEPTED	DATE
				TEST INSPECTOR SIGNATURE	E.D. 7	agele	enflet. 10-6-80
NOTE SEE ABOVE FAILURE	DATA			DISTRICT SIGNATURE	S.B. 1	De Tre	11-10-80
SIGNATURE	ð			DIVISION	1 1.	11	
JIGHATURE				SIGNATURE	eno M	forteller.	5-26-81

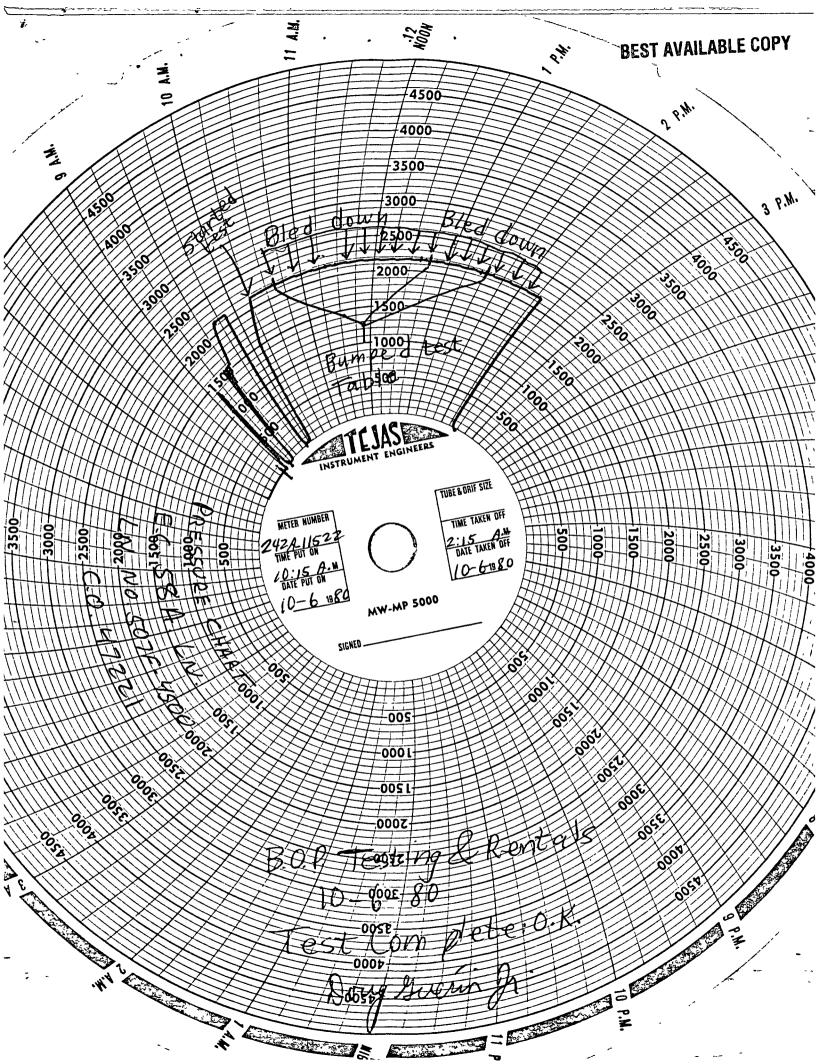
	TABLE OF TEST PRESSURES TEMPERATURE			DELLA DES / ON TEST, WEATHER, BLEED OFF, OFF TEST,	
DATE	TIME	DEAD WEIGHT	TEST WATER AMBIENT		REMARKS (NO OF STROKES FOR REPRESSURE, ETC.)
10/1/100	0900	 	650	69°	PRESSURING UP COOL CLEAR SIN
10/6/30	0908	14,620	680	68"	GROVE GATE VALUE LEAKING
	0918	1400	68°	69°	
			70°	73°	PAFSSURING UP WEATHER SHITE
	0940	2160	70°	73°	REPUBLICATION PRESS BOTH TEMIS
	0952	2/58	71'	7.3°	ORIFICE PLATE 3 PLUGS LEAKING EXEFOCI
	1000			13	PRESSURING UP WATER TEMP RISIN
	1015	2/6/	720	740	REACHED TEST PRESSURE BOTH TEAMS RISA
	1030	2/68	72"	74'	PRESSURE 3 TEMPS HOLDING, NOLEARS
	1038	2175-2160	720	740	BLED DOWN TO ZIGO, TEMPS HOLDING
	1045	2164	720	74°	PRESSIRE HOLDING, BOTH TEMPS HOLDIN
	1058	2175-2160	73'	75.	BLED DOLIN TO 2160, BOTH TEMPS PISING
	1100	2163	73°	75°	PRESSURE HOLDING NOVISIBLE LEAKS
	1110	2175-2160	74"	75	REP. DEWN TO ZIGO: BOTH TE-185 RI
	1115	2165	74'	75	TEST PRESS 3 BOTH TEMPS HOLDING WEATHER
	1127	2175-2160	74°	75"	BLED DOWN TO 2160, BUTHTEMPS STABLE
	1130	2165	74'	75'	PRESS 3 POTH TEMPS STEBLE, NO VISINELLE
	1/38	2175-2160	74"	75°	BLEC COUNTO 2160, BOTH TEMPS STARL
	1145	2162	74'	75	PRESSURE HOLIVAY TEAMS STENLY WEATHER SE
	1153	2160	75	76"	NEO DOWN TO 3160, BOTH TENDS UP
	12.00	2169	75"	76 °	PRESSURE HOLDING BUTHTEMPS IL ENTHERS
	1205	2175-2160	7.5	76°	BLED DOWN TO ZIGO BOTH TEMPS STABLE
	1215	2/7/	76°	76°	PRESS HUDING NO CEAUS BOTH TEMPS ST
	1230	7175-2160	76	76°	BLED DOWN WEATHERS FORE, TEMPS. STABL
	1230	2175-2160	76"	76	11 11
	1245	2175-2160	76°	7/- "	11
	1300	2175-2160	76°	76	1. //
	/3/2	2175-2160	770	78'	" BOTH TEURS UP ISUNNY
	/325	2175-2160	77°	75°	11 BOTH TELT PS STERLE
	13.38	2175-2160	77"	78°	13
	1340	2175-2160	77°	785	11
	1400	2170	78	78"	
	1408	7175-2160	755	790	PRESS HOLDING BOTH TEGSPS UP
	1415	2173	75.	79'	PRESS RISING BOTH TEURS STELLE WES
	1975			7-7	
	-	- 			SAME, NO VISIBLE LEAKS, OF TES
	 				
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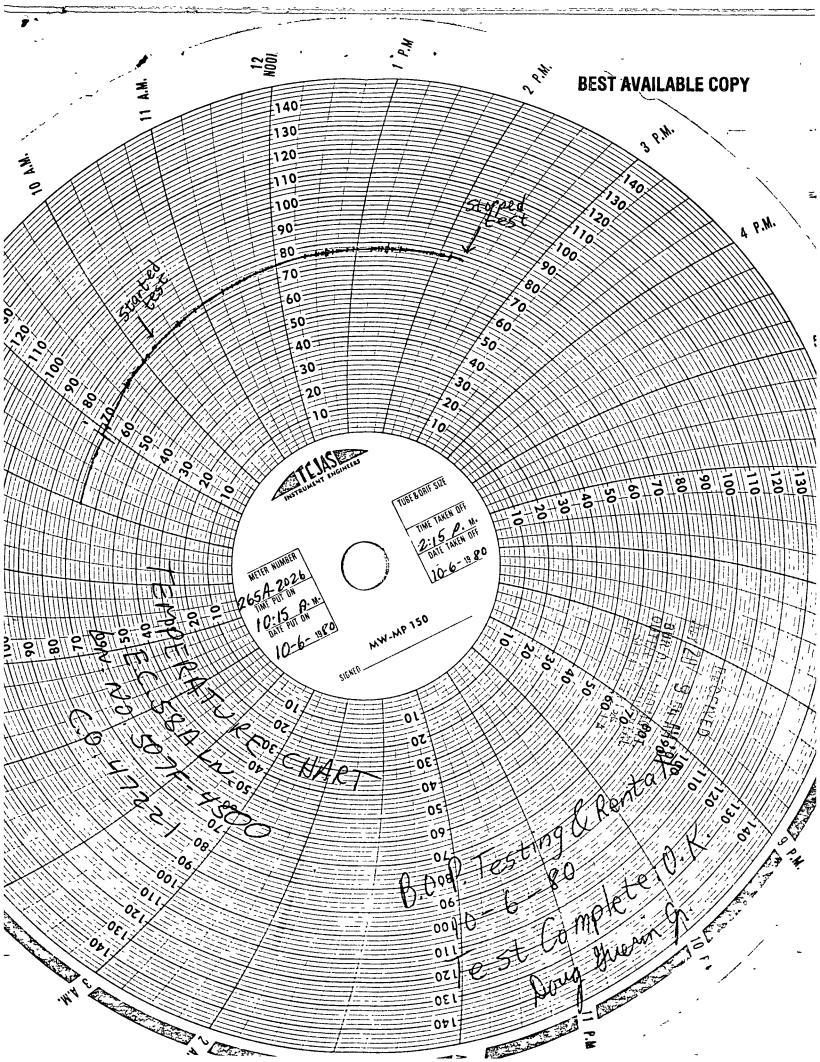
COMMENTS

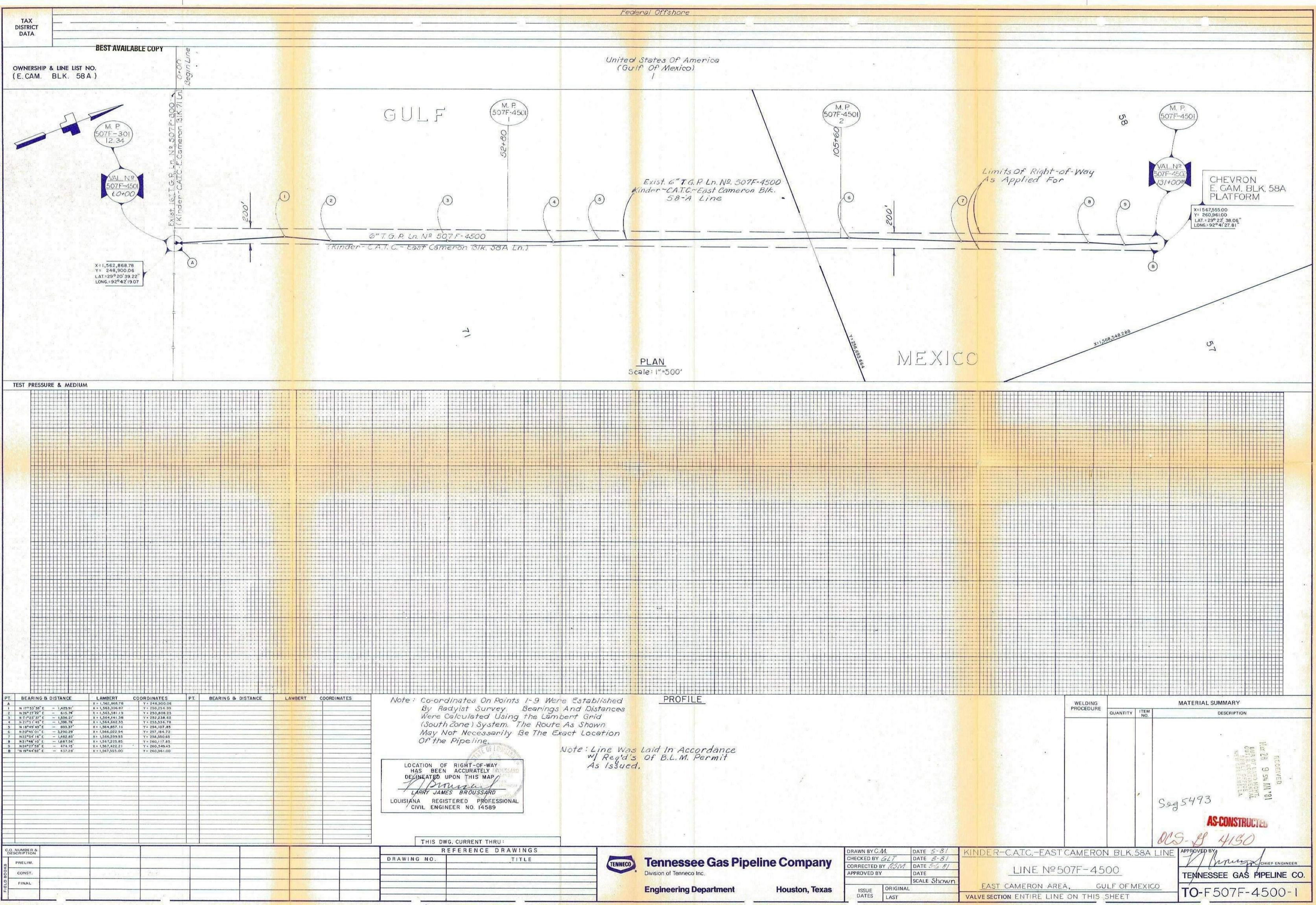
CHANDLER DEAD WT. TESTER
BARTON PRESSURE RECORDER
BARTON TEMPERATURE RECORDER

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Tennessee Gas Pipeline

Division of Tenneco Inc.

P.O. Drawer 53388 Lafayette, Louisiana 70505 (318) 233-780 RECEIVED



Aug | 10 47 AM '80

BUR OF LAND MGMT. OUTER CONTINENTAL SHELF OFFICE NEW ORLEAMS, LA.

July 30, 1980

The Bureau of Land Management U. S. Dept. of The Interior Hale Boggs Federal Building 500 Camp Street, Suite 841 New Orleans, LA 70113

Attention: Chief, Division of Operations

Your Re: OCS-G 4150

Our Re: East Cameron Blk. 58A Ln.

Dear Sir:

Please be advised that Tennessee Gas Pipeline Company's contractor Ingram Marine plans to start construction on the above captioned line on or before August 4, 1980. Contractors lay barge does not have a heliport on same.

Yours very truly,

R. S. Perot

Right of Way Agent

RSP/kom

cc: R. L. Sanderson

L. J. Broussard

H. E. Fisher

R. G. Robertson

C. C. Mantlo

J. D. DeBlieux

George Benoit

F. J. Millette, Jr.

ROW File

FILE CODE

ROUTE

MGR.

ASST. MGR.

AUG 0 1 1980

P. LEGAL

PAO

FAD

OPS

STUDIES

MGMT. SEP.

March 24, 1980

Tenneco, Inc. Attention: F. J. Millette P. O. Box 53388 Lafayette, Louisiana 70505

Gentlemen:

Please furnish proof of construction in accordance with 43 CFR 3340.3 on the following pipeline rights-of-way:

OCS-G Number	Decision Issued	OCS-G Number	Decision Issued
3360	9-15-76	4061	9-20-79
3640	12-16-77	4150	10-09-79
3645	3-22-78	4154	10-11-79
3837	8-25-78	4158	10-11-79
3867	11-02-78	4160	10-22-79
3873	11-02-78	4161	10-22-79
4028	6-12-79	4169	11-05-79
4029	8-09-79	4171	12-13-79
4030	7-23-79	4172	12-13-79
4040	8-14-79	4173	12-13-79

H. P. Sieverding

Acting Manager

As Lauradia

210:DWild:prb:3/24/80

OCT 1 0 1979

BEST AVAILABLE COPY

East Cameron Area

September 28, 1979

Tenneco Inc.

1

Right-of-Way

ACTION - APPLICATION APPROVED

Your application for a six-inch natural gas pipeline from Chevron U.S.A. Inc.'s Platform "A" in Block 58 to a subsea tie-in with Tenneco Inc.'s existing 16-inch pipeline (OCS 0643) in Block 71, East Cameron Area, dated July 31, 1979, with its attachments, and amendment thereto dated August 17, 1979, is hereby approved with the following additions and corrections:

- The ANSI 600 valves, flanges, and fittings should not be subjected to a body test greater than 2,175 psig, and a test pressure differential greater than 1,440 psig.
- 2. Hydrostatic test data including test procedure, hold time, two copies of the pressure charts and results, along with two copies of the completion report consisting of a plat showing the location of the pipeline as installed, must be submitted to this office within ninety (90) days after completion.
- 3. When installing the valve guard, all six (6) anchor pins shall be installed deep enough so as to reach firm soil.
- Immediately following installation of the valve guards, the corners shall be sandbagged.
- The unidentified anomaly on Line 102 at Shot Point 119 should be avoided by 150m when placing lay barge anchors.

The permittee agrees that if any site, structure, or object of historical or archaeological significance should be discovered during the conduct of any operations within the permitted right-of-way he shall report immediately such findings to the Manager, New Orleans OCS Office, and make every reasonable effort to preserve and protect the cultural resource from damage until the Manager, New Orleans OCS Office, has given directions as to its preservation.

Permittee agrees to comply with all regulations and conditions as may be prescribed by the Secretary of the Interior, or the Secretary of Transportation including, pursuant to section 21(b) of the OCS Lands Act, as amended, provisions to assure maximum environmental protection by utilization of the best available and safest technologies, including the safest practices for pipeline burial. This agreement includes but is not limited to complying with the following stipulations:

- Permittee shall transport or purchase without discrimination oil or natural gas produced from submerged lands or outer Continental Shelf lands in the vicinity of its pipeline in such proportionate amounts as the Federal Energy Regulatory Commission, in consultation with the Secretary of Energy, may, after a full hearing with due notice thereof to the interested parties, determine to be reasonable, taking into account, among other things, conservation and the prevention of waste.
- 2. Permittee shall operate its pipeline in accordance with the competitive principles set out in section 5(f)(1) of the Outer Continental Shelf Lands Act, as amended, except insofar as the Federal Energy Regulatory Commission may, by order or regulation, exempt such pipeline from any or all of the requirements of section 5(f)(1) pursuant to section 5(f)(2) (which permits such exemption of any pipeline or class of pipelines which feeds into a facility where oil and gas are first collected or a facility where oil and gas are first separated, dehydrated, or otherwise processed).
- 3. Unless so exempted by Federal Energy Regulatory Commission order or regulation, permittee shall operate its pipeline so as to provide open and nondiscriminatory access to both owner and nonowner shippers, and permittee shall comply with any specific conditions which the Secretary of Energy and the Federal Energy Regulatory Comission may require, after consultation with and due consideration given to the views of the Attorney General, to ensure that its pipeline is operated in accordance with the competitive principles set forth in section 5(f)(1).

/s/ John L. Rankin
John L. Rankin, Manager
Date: October 9, 1979

Tenneco Inc. hereby agrees to be bound by the foregoing.

/s/ F. J. Millette

Date: October 5, 1979

cc: Geological Survey, USDI

Office of Pipeline Safety Operations, USDT



United States Department of the Interior

OCS-G 4150

BUREAU OF LAND MANAGEMENT

NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
HALE BOGGS FEDERAL BUILDING
500 CAMP STREET-SUITE 841
NEW ORLEANS, LA. 70130

August 31, 1979

SEP 0 4 1979

Memorandum

To:

Conservation Manager

Gulf of Mexico OCS Operations

From:

Manager

New Orleans OCS Office

Subject: Tenneco Inc.'s Pipeline Right-of-Way Application (OCS-G 4150)

Attached is additional information which you may use to further evaluate the subject pipeline application.

If you have any questions regarding this matter, please contact Mr. Autry J. Britton of this office.

Acting Acting

Attachment

1-Tenneco Inc.'s Letter Dated August 17, 1979

NOTED - PATZ



P.O. Drawer 53388 Lafayette, Louisiana 70505 (318) 233-7802



August 17, 1979

Mr. John L. Rankin, Manager Outer Continental Shelf Office Hale Boggs Federal Building 500 Camp Street, Suite 841 New Orleans, Louisiana 70130 ILE CODE
ROUTE
INITIAL
MGR.
ASST. MGR.

AUG 20 13/3
P. LEGAL
PAO
EAD
OPS
STUDIES
MGMT, SER.

Our Re:

Application - Right of Way for

6" Natural Gas Pipeline in East Cameron Area, Gulf of Mexico (E.C. Blk. 58A Line)

Your Re: OCS G-4150

Gentlemen:

We would like to amend our M.A.O.P. to read 1,232# P.S.I. rather than the 1,440# P.S.I. as submitted. The reason for the change was due to the 507F-300 line that subject line is tying into has a M.A.O.P. of 1,232# P.S.I. The producers Hi-Lo Sensors will be set at a pressure not to exceed 1,232# P.S.I. maximum and 500# P.S.I. minimum.

We would like to apologize for any inconvenience we have cause you.

Yours very truly,

F. J. Millette, Supervisor Rights of way and as Agent and Attorney-in-Fact

FJM:CJB/jsb

cc: R. E. Lyons

R. L. Sanderson

R. G. Robertson

L. J. Broussard

Autrey Britton

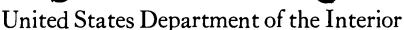
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GEOLOGICAL SURVEY

CAUSEWAY BLVD 434 IMPERIAL OFFICE BLDG , 3301 N CAUSI

P O BOX 79 ROUTE METAIRIE, LOUISIANA

TEL (504) 837-4720

In Reply Refer To: OS-5

aug**27** 1979

AUG 23 1979

m

P. LEGAL

STUDIES

LINITIAL

Memorandum

To:

Manager, Bureau of Land Management, 641 Hare Boggs Federal Building, 500 Camp Street, New Orleans, Louisiana 70130

From:

Conservation Manager, Gulf of Mexico Region

Subject:

Tennessee Gas Pipe Line Company's Pipeline Right of Tax Application,

BLM OCS-G 4150

We have reviewed the safety features and design specifications for the subject Right-of-Way Application, dated July 31, 1979, in accordance with the MOU dated August 1, 1974. It is for the construction, maintenance, and operation of a 6 5/8-inch gas pipeline 12,832 feet in length from Chevron's Platform "A", East Cameron Block 58, lease OCS-G 3530, to subsea tie-in with an existing Tennessee Gas Pipe Line Company 16-inch pipeline in East Cameron Block 71, lease OCS 0163.

Based upon information submitted in the application, the design characteristics of this pipeline are calculated to be as follows:

Pipeline Component	Maximum Allowable Operating Pressure/WP Ratings
Submerged component	3,286 psig
Riser component	2,282 psig
Valves, flanges, fittings	1,440 psig

The hydrostatic pressure test with water will be at 2,160 psig for eight hours for the submerged component. The riser will be preinstallationtested to a pressure of 2,160 psig for four hours. The ANSI 600 valves should not be subjected to a test-pressure differential greater than 1,440 psig. The ANSI 600 valves, flanges, and fittings should not be subjected to a body test greater than 2,175 psig.

Based on these calculations and a maximum allowable operating pressure (MAOP) of 1,232 psig of the receiving 16-inch Tennessee Gas Pipe Line Company pipeline (BLM OCS 0643), we recommend that the MAOP for this pipeline be 1,232 psig and that this pressure may be exceeded only when hydrostatically pressure-testing the pipeline.

It is the opinion of this office that the design and installation of the valve guards proposed for this pipeline are not in the best interest of the multiple-use concept of the OCS. We feel that installations of this type present an obstruction and that all subsea valves on the OCS should be provided with a minimum of three feet of cover, either through burial or with sandbags.

The technical aspects of the proposed pipeline are acceptable in accordance with appropriate regulations and standards.

We would appreciate receiving a copy of the plat showing the location of the pipeline as installed.

Acting Conservation Manager



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

OCS-G 4150 / OCS-G 0643

NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
HALE BOGGS FEDERAL BUILDING
500 CAMP STREET-SUITE 841

500 CAMP STREET-SUITE 841 NEW ORLEANS, LA 70130

August 20, 1979

AUG 2 2 1979

Memorandum

To:

Conservation Manager

Gulf of Mexico OCS Operations

From:

Manager

New Orleans OCS Office

Subject:

Tenneco Inc.'s Pipeline Right-of-Way (OCS-G 4150)

Tenneco Inc.'s Pipeline Right-of-Way (OCS-G 0643)

Attached is additional information which you may use to further evaluate the above subject.

If you have any questions regarding this matter, please contact Mr. Autry J. Britton of this office.

Attachment

1-Confirmation/Report of Telephone Conversation dated August 16, 1979

WOTED-WE INTOSH

Form 1541-3 (July 1965) (formerly 4-1599 a)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OCS-G 4150 OCS-G 0643

CONFIRMATION/REPORT OF TELEPHONE CONVERSATION

TO	Name Carroll Breaux	R	Name Autry J. Britton
	Office Tenneco Inc.	M	Office OCS
	Location Lafayette, Louisiana		Location New Orleans, La.
	Telephone Number 33-7802		Telephone Number

Purpose of Call:

READING FILE

I called Mr. Breaux per request of U.S. Geological Survey to determine the Maximum Allowable Operating Pressure (MAOP) of their 16-inch pipeline segment (OCS-G 0643). Tenneco Inc's proposed 16" pipeline OCS-G 4150 will tie into their 16-inch pipeline.

Mr. Breaux stated that the 16-inch pipeline have not operated in excess of 1232 psig for the past five (5) years therefore they have assigned a MAOP of psig. I informed Mr. Breaux that the MAOP of the proposed 6-inch pipeline will be limited to 1232 psig because of the MAOP of the tie in pipeline. Mr. Breaux stated he would submit a letter to this effect to be made part of the proposed right-of-way application.

REST AVAILABLE COPY

Explanatory Remarks:	
	Autry J. Britton Chaly Bullar
8-16-79 (Date)	(Cirnotus)
(Date)	(Signature)



United States Department of the Interior

OCS-G 4150

BUREAU OF LAND MANAGEMENT

NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE

HALE BOGGS FEDERAL BUILDING 500 CAMP STREET-SUITE 841 NEW ORLEANS, LA. 70130 4150-1

August 7, 1979

Memorandum

AUG 1 3 1979

To:

Conservation Manager

Gulf of Mexico OCS Operations

From:

Manager

New Orleans OCS Office

Subject: Tenneco Inc.'s Pipeline Right-of-Way Application (OCS-G 4150)

In accordance with the memorandum of understanding between the Bureau of Land Management and U.S. Geological Survey signed August 1, 1974, the subject application is enclosed.

Please review the technical aspects of the proposed pipeline. If you have any questions regarding this matter, please contact Mr. Autry J. Britton of this office.

Enclosures (3)

1. Application dated July 31, 1979

2. Drawings Nos. TA-L2-F507F-4500-1; -1A; -1B; and -1C

3. Drawing No. TB-L2-F507F-4500-1D



P.O. Drawer 53388 Lafayette, Louisiana 70501 (318) 233-7802



July 31, 1979

Mr. John L. Rankin, Manager Outer Continental Shelf Office 500 Camp Street, Suite 841 Hale Boggs Federal Building New Orleans, LA 70130



Re: Application - Right of Way for 6" Natural Gas Pipeline in East Cameron Area - Gulf of Mexico E. Cameron Blk. 58-A Line

Dear Mr. Rankin:

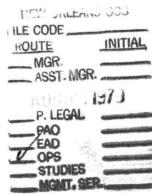
Pursuant to the authority granted in Section 5 (e) of the Outer Continental Shelf Lands Act (67 Stat. 462) (43 U.S.C. 1331), as amended (92 Stat. 629), and in compliance with the regulations contained in Title 43 CFR 3340, Tennessee Gas Pipeline Company, a Division of Tenneco Inc., is filing this application for a right of way 200 feet (200') in width for the purpose of constructing and maintaining a six (6") inch natural gas pipeline in the East Cameron Area, Gulf of Mexico. Tennessee Gas Pipeline Company agrees that said right of way, if approved, will be subject to the terms and conditions of said regulations.

This pipeline will be used to gather and transport natural gas from Chevron's "A" platform in Block 58, East Cameron Area, in the Gulf of Mexico. The tentative construction date is September 1, 1979, and tentative completion date is October 15, 1979.

As set forth in the February 13, 1978, guidelines, the applicant agrees to furnish the following:

- 1. Letter of Application in triplicate.
- 2. Certified and Return Receipts with copies of letter of notification to the following lease and right of way holders:

-	Continental Oil Company		000		01.60
d.	Continental Oil Company	-	OCS	_	0163
b.	Atlantic Richfield Company	-	OCS	_	0163
C.	Getty Oil Company	-	OCS	-	0163
d.	Cities Service Company	-	OCS	-	0163
e.	Chevron U.S.A., Inc.	-	OCS	-	G - 3530
f.	Union Oil Company	-	OCS	-	G - 3530
g.	Gen. American Oil Co. of Texas	-	OCS	-	G - 3530



Mr. John L. Rankin, Manager Outer Continental Shelf Office Page 2 East Cameron 58-A Line

- 3. Six (6) blue line prints of Drawing No. TA-L2-F507F-4500-1, la and E lB showing the location, profile and route of the proposed pipeline and Hi-Lo Censor locations.
- 4. Two (2) blue line prints of Drawing No. TA-L2-F507F-4500-2 showing the leases and pipeline rights of way.
- 5. Bury all pipelines to a minimum of 3 feet of cover up to the 200 ft. contour.
- 6. Bury all sub-sea valves to a minimum of 1 foot of cover regardless of water depth.
- 7. A hazard survey report of the proposed right of way route is attached in duplicate.
- 8. An archaeological survey report as stipulated in requirements is not required.
- 9. In accordance with the guidelines an As-Built map along with diving inspection reports will be provided within 90 days after completion of the pipeline.
- 10. Safety devices will be provided as set forth on attached schematic Drawing No. TA-L2-F507F-4500-1B.
- 11. Proper notification prior to construction and hydrostatic testing will be adhered to.
- 12. Any pipeline crossings will be in compliance with the guidelines as set forth.
- 13. Any breaks, leak failures or accidents will be reported as required.

In addition to the above information, applicant submits the following information.

1. Water depth along route of proposed pipeline and pipeline in relationship to natural bottom as set forth on attached Drawing No. TA-L2-F507F-4500-1A.

Mr. John L. Rankin, Manager Outer Continental Shelf Office Page 3 East Cameron Blk. 58-A Line

The description of the pipe and coating is as follows:

a. Line Pipe

6.625" OD x .432" W. T. Gr "B"; Weight Bare - 28.57/ft. coated with 22 mils of heat cured epoxy or coal tar enamel 6/32" thick, giving a specific gravity of 1.87 in salt water (64.0#/cu.ft.)

b. Riser Pipe

6.625" OD x .432" W. T. Gr "B"; Weight Bare - 28.57#/ft. coated with 22 mils of heat cured epoxy or coal tar enamel 6/32" thick, giving a specific gravity of 1.87 in salt water (64.0#/cu. ft.)

c. Internal Coating

The analysis of the transported products will be monitored and preventive measures such as pigging and/or inhibiting will be employed as necessary.

3. Valves and Flanges

- a. Below water valves and flanges will be A.N.S.I. 900 series with a rated working pressure of 2,160# P.S.I.
- b. Above water flanges and valves will be A.N.S.I. 600 series with a rated working pressure of 1,440# P.S.I.
- 4. The specific gravity of the product being transported is anticipated to be .60 (Air = 1.0), $T = 60^{\circ}F$.
- 5. Weight, type and spacing of anodes to be used as corrosion protection are shown on attached Drawing No. TA-L2-F507F-4500-lB entitled "Schematic". The life expectancy of the proposed pipeline is indefinite. The sacrificial anodes are designed for 40 year life and are to be replaced as necessary to extend life of pipeline.

Mr. John L. Rankin, Manager Outer Continental Shelf Office Page 4 East Cameron 58-A Line

- The design of the proposed pipeline is in accordance with "Minimum Federal Safety Standards (Department of Transportation) Title 49, CFR, Part 192".
- 7. Maximum Allowable Operating Pressure (M.A.O.P.) = 1,440# P.S.I.G.

Maximum Capacity = 6.9 MMCF/D

Maximum Operating Pressure = 500# P.S.I.G.

A. Calculations

Formulas:

$$P = \frac{2st}{d}$$

M.A.O.P. =
$$\frac{2st (F) (E) (T)}{d}$$

Whereas: P = 100% S.M.Y.S.

s = Specified Minimum Yield Strength t = Nominal Wall Thickness in Inches d = Nominal Outside Diameter in Inches

(F) = 0.50 for Riser Pipe = 0.72 for Line Pipe

As per Title 49, CFR, Part 192.619

(E) = 1 - for seamless and DSA welded pipe

(T) = 1 - for temperature less than 2500 F

a. Riser Pipe

6.625" O.D. x .432" W.T. Gr. "B"

$$P = 2 \times .432" \times 35,000 = 4,564# P.S.I.G.$$

(1) M.A.O.P. (Design)

M.A.O.P. =
$$\frac{2 \times .432" \times 35,000 \times .50 \times (x)}{6.625"}$$
 = 2,282#P.S.I.G.

Mr. John L. Rankin, Manager Outer Continental Shelf Office Page 5 East Cameron Blk. 58-A Line

(2) M.A.O.P. (Hydrostatic Test Pressure)

H.T.P. = P x 90%
= 4,564 x .90 = 4,108# P.S.I.G.
H.T.P. will be 2,160# P.S.I.G. for 4 hours
M.A.O.P. =
$$\frac{2,160}{1.5}$$
 = 1,440# P.S.I.G.

- (3) M.A.O.P. = 2,282# P.S.I.G. (Design) or 1,440# P.S.I.G. (H.T.P.)
- b. Line Pipe

$$P = 2 \times 35,000 \times .432" = 4,564# P.S.I.G.$$

(1) M.A.O.P. (Design)

M.A.O.P. =
$$\frac{2 \times 35,000 \times .432" \times .72 \times (x)}{6.625"}$$
 = 3,286# P.S.I.G.

(2) M.A.O.P. (Hydrostatic Test Pressure)

H.T.P. = P x 90%
= 4,564 x .90 = 4,108# P.S.I.G.
H.T.P. will be 2,160 P.S.I.G. for 8 hours
M.A.O.P. =
$$\frac{2,160}{1.25}$$
 = 1,728# P.S.I.G.

(3) M.A.O.P. = 3,286# P.S.I.G. (Design) or 1,728# P.S.I.G. (H.T.P.)

Mr. John L. Rankin, Manager Outer Continental Shelf Office Page 6 East Cameron 58-A Line

Since there are A.N.S.I. 600 series valves in the system, the M.A.O.P. therefore is restricted to 1,440# P.S.I.G.

- 8. The producers equipment will be designed for 1,440# P.S.I.G.
- 9. The 16" line that the proposed line will tie into is 16" O.D. x .406" W.T. Gr. x-42 pipe.

The riser is 16" O.D. x 500" W.T. Gr. x-42 pipe.

- 10. An originally signed copy of Non-Discrimination in Employment Stipulations is enclosed.
- 11. Company contact:

Mr. Reno G. Robertson, Division Civil Engineer P.O. Drawer 53388, OCS Lafayette, Louisiana 70505 (318) 233-7802

12. Tennessee Gas Pipeline Company's Draft No. 26740 in the amount of \$145.00 of which \$100.00 covers the application fee and \$45.00 covers the first year's rental on 2.40 miles of right of way is also enclosed.

Please refer to your miscellaneous 014 file for a copy of a resolution approved by the Board of Directors authorizing the undersigned as Supervisor-Right of Way of Tennessee Gas Pipeline Company, a Division of Tenneco Inc., to sign for and on behalf of the Company.

We trust the above information will enable you to expedite the issuance of the Decision approving said right of way.

Yours very truly,

TENNESSEE GAS PIPELINE COMPANY A Division of Tenneco Inc.

F./J/ Millette, Supervisor

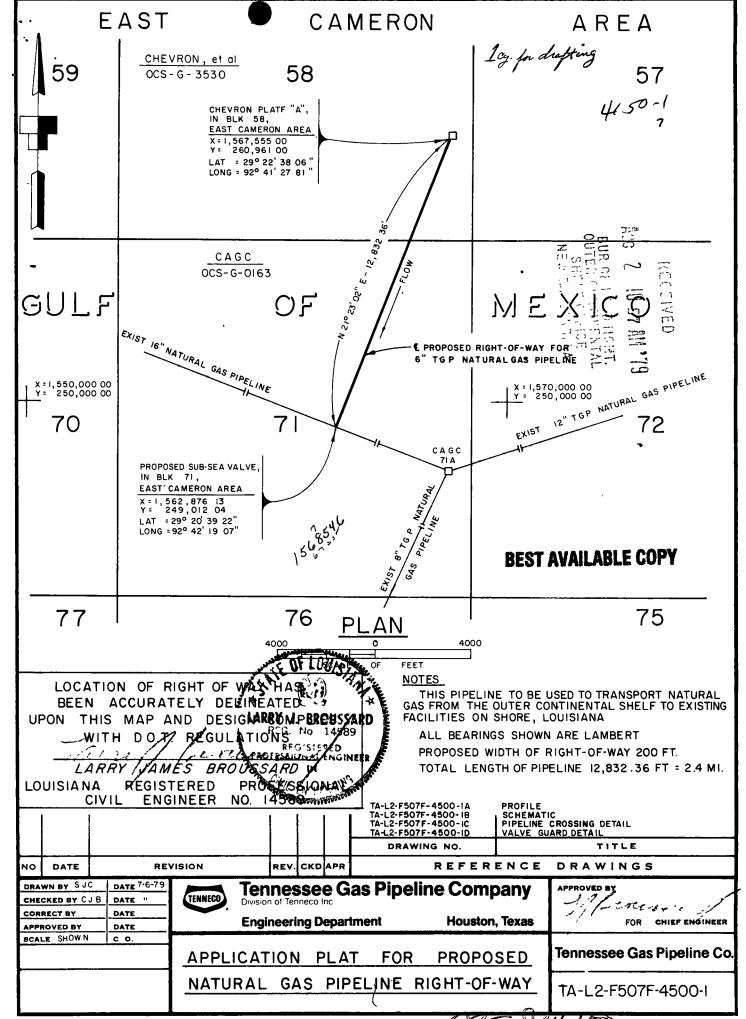
Rights of Way as

Agent and Attorney-in-Fact

RSP:FJM/kom

Certified Mail - Return Receipt #809091

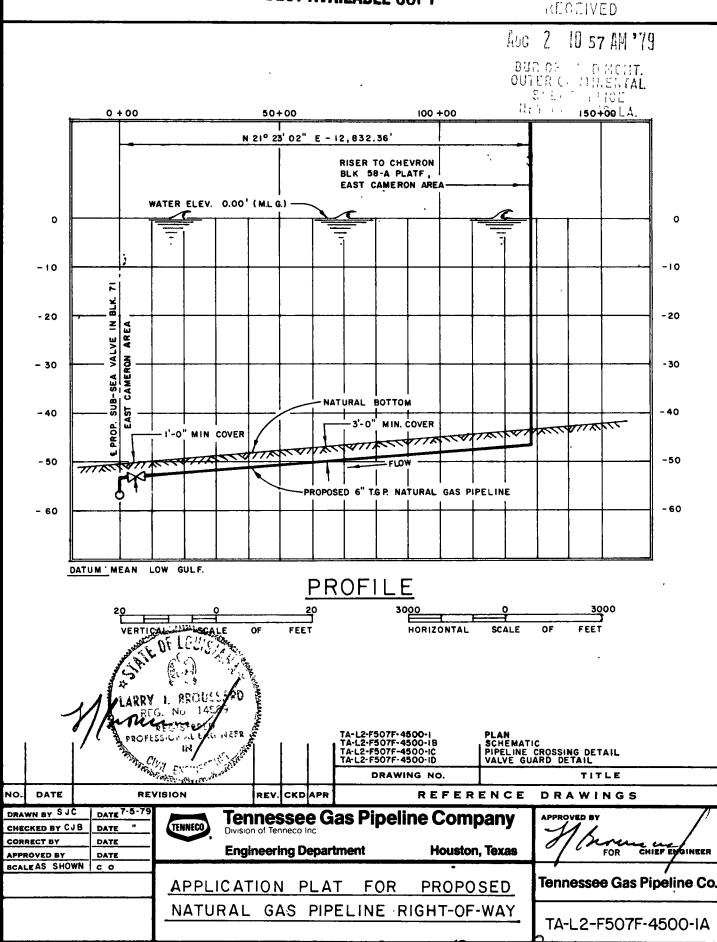
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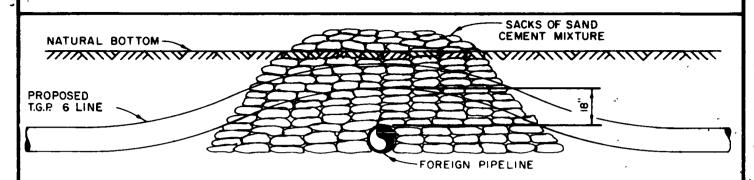




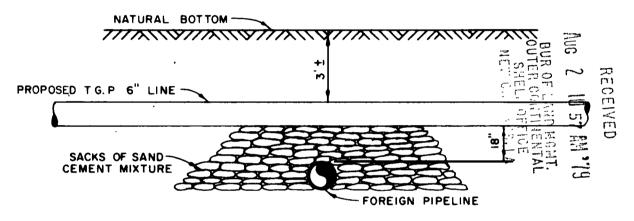
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E C BLK 58-A LINE

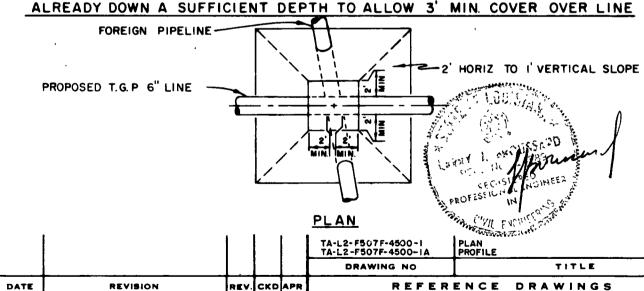
JC5-19 4150



CROSSING METHOD USED WHEN FOREIGN PIPELINE CAN NOT BE JETTED DOWN AND IS TOO SHALLOW TO ALLOW 3' MIN COVER OVER LINE



ALREADY DOWN A SUFFICIENT DEPTH TO ALLOW 3' MIN COVER OVER LINE



DRAWN BY SJC	DATE7-6-79
CHECKED BY CJB	DATE "
CORRECT BY	DATE
APPROVED BY	DATE
SCALE NONE	c o

NO

Tennessee Gas Pipeline Company

Engineering Department Houston, Texas

PROPOSED 6" NATURAL GAS PIPELINE
TYPICAL PIPELINE CROSSING
SEPARATION DETAIL

EAST CAMERON AREA GULF

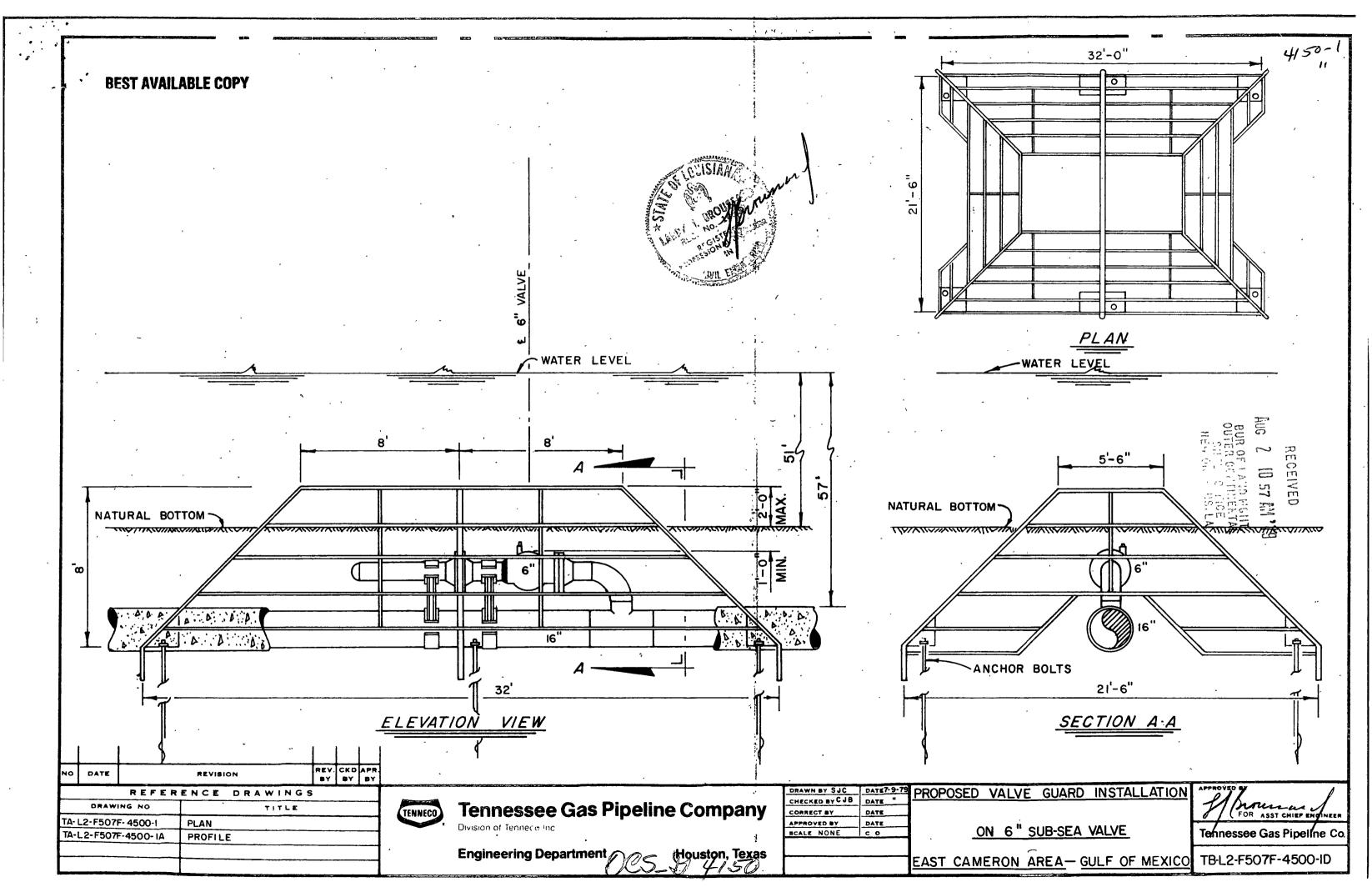
E C BLK 58-A LINE

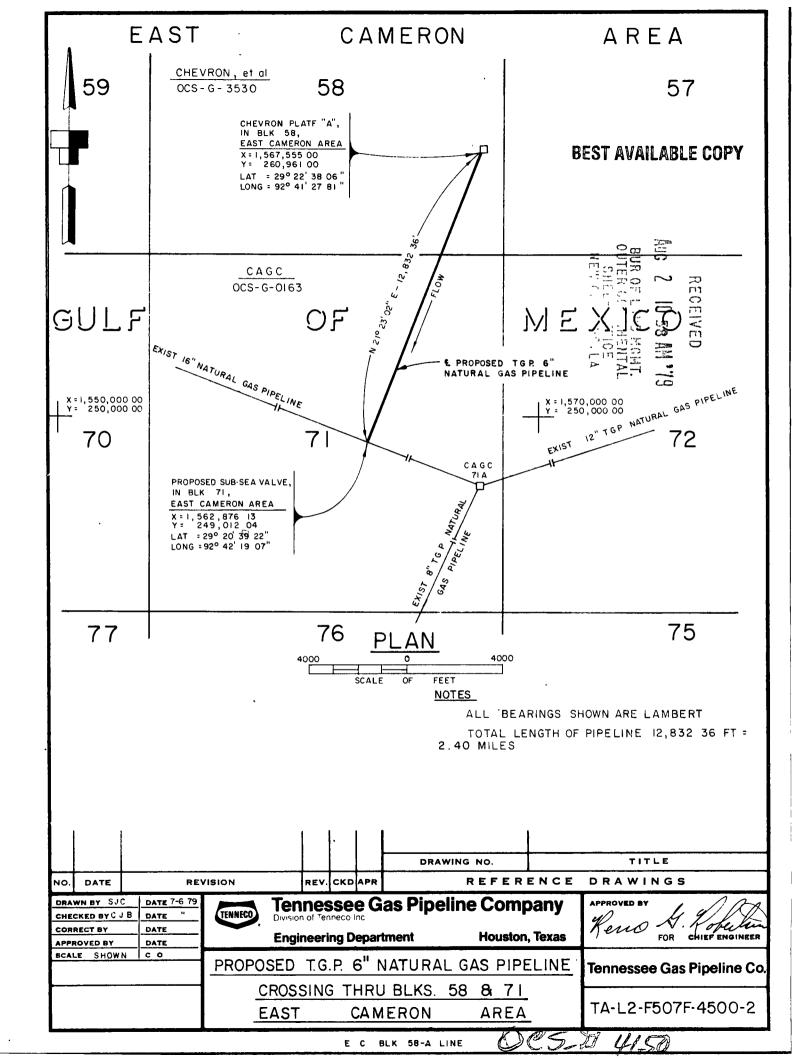
OCS \$ 4157)

FOR CHIEF E

Tenriessee Gas Pipeline Co.

TA-L2-F507F-4500-IC





: Lennessee Haz Pepe Line Company
698" gas Ph & 58, Chevran 4", 9353 ?
10 A 5572 W EXIST TEPL ECTI, 0163 [-643] 4/50-1

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(12,832.36') 2,4303741 PIPELINE APPLICATION CHECK LIST

INSTRUCTIONS: Check the blank on the left if the statement is affirmative or correct data submitted. Mark N/A (not applicable) where appropriate. Place an X in the blank if the answer is no or if the data was not submitted. All blanks marked X must be rectified to a check (or qualified) before approval can be given for the pipeline. Enter data in the blanks on the right.

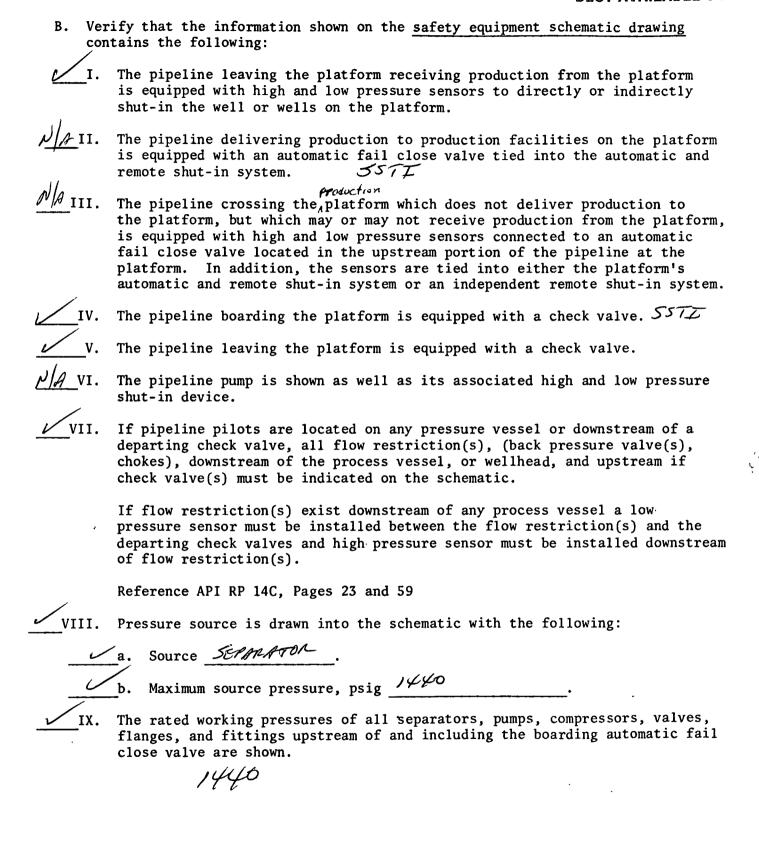
rig	nt.		
A.	Verif	y th	e following general information:
	ı.	SOP	
		a.	Do the leases involved on the P/L application appear on the current Suspension of Production (SOP) Lease List?
	II.	POD	
		. a.	Is the pipeline presently covered by an approved Plan of Development (POD)? (Discuss ROU&E with Doug.) If yes, go to III. If No, go to 250.34. (Requires submittal to POD/P by operator to District.)
	ш.	USGS	Application
	\rightarrow		The applicant is a Federal lease holder and the pipeline is to be used for such purposes as:
			Moving production to a control point for gathering, treating storing, or measuring.
			2. Delivery of production to a point of sale.
			3. Delivery of production to a pipeline operated by a transportation company.
			4. Moving fluids in connection with lease operations, such as for injunction purposes.
		ъ.	The pipeline is within the lease boundary owned by the operator (If yes, include 30 CFR 250.19(b) in approval.)
			Pipeline is within continguous lease boundaries. (If yes, include 30 CFR 250.19(b) in approval.)
			Pipeline is within non-continguous lease boundaries. (If yes, include 30 CFR 250.18(c) and 30 CFR 250.19(b) in approval.)
		-	Lessee's "intent to cross" letter are received. (Wait 30 days for letters of objection. Only objections concerning interference with lease operations will be considered.)
			Pursuant to Secretarial Order 2974 of April 30, 1975, check the following:

•

	4	150-2	
•	1. FWS notifiedBE	ST AVAILABLE COPY	,
	2. FWS comment received	•	
	3. BLM notified		
	4. BLM comment received	_•	
	5. Environmental Impact Evaluations completed	•	
	. If related to new POD/P, date of POD/P approv	val	
IV. BLM	Application		
a.	The pipeline must be able to be subjected to comprovisions (i.e., no downstream production facil downstream pipelines which could not be subjected carrier provisions).	lities or	
v. dot	Pipelines		
a.	The pipelines are shoreward of the outlet flange process facility (If yes, include 49 CFR 192 for 49 CFR 195 for oil P/L in approval).		
VI. DOI	Pipelines		
<u>NA</u> a.	Pipelines not covered by V above.		٠.

4150-3

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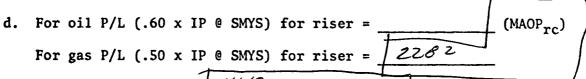
C. Verify	that the <u>location plat</u> depicts the following:	BEST AVAILABLE COPY
I. I	Location of pipeline	
II. I	Length of pipeline	
III. s	Size of pipeline	
VIV. 7	Type of service	
v. r	Direction of flow	
	that the information given on the submitted data sheet i ate the MAOP $_{\rm sc}$, MAOP $_{\rm rc}$, MAOP $_{\rm p/1}.$	s complete; and
I. Gen	neral information for calculating MAOP sc, MAOP rc, etc.	
a.	Size of pipeline, inches 6,625	
b.	Weight of pipeline, lbs./ft. 28,57	
c.	Grade of pipeline ${\cal B}$	
d.	Wall thickness, inches 0.432	·
e.	Size of riser, inches 6,625	
f.	Weight of riser, lbs./ft. 28.57	
, g.	Grade of riser ${\cal B}$	
h.	Wall thickness of riser, inches 0.43^{2}	
i.	Minimum WP rating of piping, fittings, valves, psig/	440
j.	Hydrostatic test pressure (HTP), psig	- Pape 160 2160
k.	Hold time, hrs.	4 8
1.	Classification of pipeline (oil or gas) gas	
m.	Type of pipe (ASTMAIO6, API5L, etc) Note: If ASTM A 53 Reference API RP 14E, Section 2.1.a	(2)

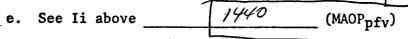
II.	DOI	Pipelines	BEST AVAILABLE COPY
\	a.	IP @ SMYS for submerged pipeline = $\frac{2st}{D}$	
	b.	(.72 x IP @ SMYS) for submerged pipeline =	(MAOP _{sc})
	c.	IP \bigcirc SMYS for riser = \bigcirc \bigcirc	/
	d.	(.60 x IP @ SMYS) for riser =	(MAOP _{rc})
	e.	See Ii above (MAOP _{pfv}) =	(MAOP _{pfv})
	_f.	Is 1.25 MSP = HTP = .95 (IP @ SMYS for smaller IP of a	and c above)
		NOTE: If not, inquire of the operator as to what he of testing as a percentage of IP @ SMYS.	onsiders a limit of
		Operator's answer % of IP @ SMYS (for small	er IP)
	_g•	HTP/1.25 =	
	_h.	Is HTP hold time ≥ 2 hours	
	_i.	MAOP of receiving pipeline from IV	
	.j.	MAOP _{p/1} = the smallest of b, d, e, g, and i above $\frac{\text{(MAOP}_{p/1})}{\text{(MAOP}_{p/1})}$	
	_k.	Test pressure ANSI & AFI carbon steel RTJ & RF Flanges	and Valves
		(From Table 3.1 Page 3	31 API RP 14E)
	_1.	Is k > HTP	
		NOTE: If not, add statement in approval letter to install flanges are not subjected to test pressure.	sure valves and
	m.	Is j≥ MSP	
		If not, one of the following is necessary:	
			•
		2. A departure from the requirement for redunda	ant safety equipment.

III. DOT Pipelines

a.	IP @	SMYS	for	submerged	pipeline	=	2st D	2	(2)(35000)(,432)	=	4564	£ #
----	------	------	-----	-----------	----------	---	----------	---	------------------	---	------	-----

c. IP @ SMYS for riser =
$$\frac{2st}{D}$$
 =





$$_{\mathbf{f}}$$
. Are b, d, and e $\stackrel{>}{=}$ MSP

NOTE: If not, a departure is necessary requiring redundant safety equipment.

A written request for a departure has been received and the redundant safety equipment is satisfactory.

g. Limit of Testing

N/A 1. For oil P/L:

Is 1.25 MSP = HTP = .95 (IP @ SMYS for smaller IP of a and c above)

2. For gas P/L riser component:

Is 1.50 MSP = HTP of riser = .95 (IP @ SMYS of c above)

_3. For gas P/L submerged component:

Is 1.25 MSP = HTP of submerged component = .95 (IP @ SMYS of a above)

NOTE: If not, inquire of the operator as to what he considers a limit of testing as a percentage of IP @ SMYS.

N/A Operator's answer % of IP @ SMYS (for smaller IP)

• % 3, •	41.	
h.	. MAOP _{p/1} based on HTP	AILABLE COPY
NA	1. For oil P/L HTP/1.25 =	
·	2. For gas P/L riser component HTP/1.5 = 1440 of riser	
	3. For gas P/L submerged component HTP/1.25 = /728 of submerged component component	
N/A i.	For oil P/L Is HTP hold time = 24 hours	
	For gas P/L Is HTP hold time = 8 hours	
j.	MAOP _{p/1} = the smallest of b, d, e, and h above $\frac{1440 \text{ a } 6-0643 \text{ P/c}}{(\text{MAOP}_{p/1})}$	232
∕ k.	Test pressure ANSI & API carbon steel RTJ & RF flanges and valves 2/75 (From table 3.1 page 31 API RP 14E)	
1.		
· .	NOTE: If not, add statement in approval letter to insure valves flanges are not subjected to test pressure.	and
	A of HTP: 1.5 = 1440, Harever, 0	643 PK (1232

.

IV. Pipeline Receiving Production (Installed Prior to July 31, 1977)

		Submerged Component	Riser
a.	Size, inches	16"	16"
b.	Grade	X42	· X42
c.	Wall thickness, inches	.406	,500
d.	Minimum working pres- su re of valves and flanges		(MAOPpfv)
e.	Date of last hydro- static test		
f.	HTP, psig		
g.	Hold time, hours	·	
h.	MAOP based on HTP HTP/1.25		
i.	IP@SMYS for submer- ged P/L &ST/D		
j.	(.72 X IP@SMYS) for submerged P/L		(MAOPsc)
k.	IP@SMYS for riser 2ST/D		
1.	(.60 X IP@SMYS) for riser	gygy at an agus at the construction of the con	(MAOPrc)
m.	If the receiving P/L is tested since July 1, 19 which the segment was prior to July 1, 1976?	971, then what is the	HAOP to
n.	MAOP of receiving P/L MAOP of proposed P/L	_ MAOP of proposed F	P/L _

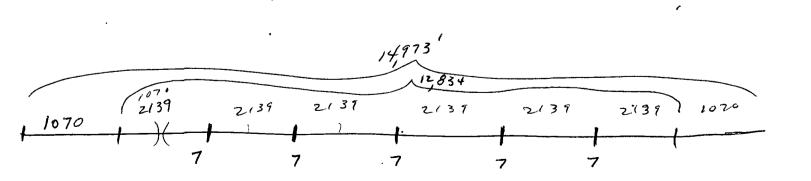
MAOP 005643 1232800 12:00 PM 8/16/19 12:00 PM 8/16/19

E. Verify that the information given on the submitted data sheet is complete;

and cal	culate the life expectancy of the pipelines corrosion protection $(\hat{L}E_{p/1})$					
I. Gen	eral Information for Calculating LE _{p/1}					
a.	Type of corrosion protection (platform anodes, P/L anodes, or rectifiers)					
MA b.	If platform anodes are used:					
	1. Type of anode					
,	2. Weight of unit anode, 1bs.					
<u>/</u> c.	If pipeline anodes are used:					
	 Type of anode ZINC Spacing interval, ft. 2/39 					
	3. Weight of unit anode, 1bs. 96					
II. Cal	II. Calculated Life Expectancy of Corrosion Protection					
N/A a.	If platform anodes are used, are they considered adequate					
<u>/</u> b.	If pipeline anodes are used:					
$LE_{p/1} = 3.82 \times 10^4 \times W^0/DIR? = \frac{3.82 \times 10^4 \times 96 \times 7}{6.625 \times 3209 \times 26} = 46.44$						
	WO = weight of one anode, pounds =					
4	D = outside diameter of pipe, inches					
	I = interval = length of pipe, feet : total number of anodes =					

 \sqrt{c} . Is our calculated $LE_{p/1} \stackrel{>}{=} 20$ years

R = consumption rate, lbs./amp-yr.



BESI AVAILABLE COPY .

F.	Verify th	hat the	e information	given	on 1	the	submitted	data	sheet	is	complete;	and
	calculate	e the	specific grav	ity of	the	pip	eline (SP	p/1)			-	

I.	Gen	eral Information pertaining to SGp/1
	а.	Description of pipelines protective coating ZZ MILS CPOXY or Coal Tax evanel 32"
	b.	Description of risers protective coating
~	c.	Description of pre-concrete coating N/A
	d.	Density of concrete, lbs./cu. ft.
	é.	Thickness of concrete, inches
/	f.	Thickness of asphalt/somastic
	g.	Gravity or density of products
	_	For gas (air = 1.0)
		For oil/condensate API, Whater = 1.0)

 \sim h. Given $SG_{p/1} = \frac{1.87}{}$

J

11. SG_{p/1}

a. Expoxy-coated pipelines: (29.57)(2.865) $SG_{p/1} = 2.865 \text{ W/D}^2 = (6.625)^2 = 1.8649$

W = weight of bare pipe, lbs./ft.

D = diameter of pipe, inches

D. For weighted pipelines:

$$SG_{p/1} = \frac{d_c}{d} + \frac{k_2}{(T-k_1)^2} \qquad \left(\frac{W+P}{k_3} - \frac{d_c}{d}\right)$$

 d_c = density of concrete, lbs./ft.³

d = density of fluid in which pipeline is submerged, lbs./ft.3

 k_1 , k_2 , k_3 = coefficients from tables

T = thickness of concrete coating, inches

W = weight of bare pipe, 1bs./ft.

P = weight of double enamel coat and felt wrap, or weight of asphaltmastic coating, lbs./ft.

SG_{p/1} = _____

. Is our calculated SG ≅ operator's given SG

1.8649 = 1.87

NOTE: These values should be approximately the same. If not, resolve. If the SG is close to a value of 1, the pipeline is unacceptable and must be weighted with concrete or anchored securely to the bottom.

- G. Verify the following general information:
 - I. Water Depth, ft. 5 (Max) 40 (Min)
- /II. Burial depth, ft. 3
 - XII. Maximum Operating Pressure (MOP) 500
- NV. Capacity 6.944CF/0@ 500